



**US Army Corps
of Engineers®**
Engineer Research and
Development Center

ERDC
INNOVATIVE SOLUTIONS
for a safer, better world

Specifiers Properties information exchange (SPie)

Minimum Building Information Model (BIM) Object Definitions

Kalin Associates, Inc.

1121 Washington Street
Newton, MA 02465

March 2013

Prepared under CRADA-07-CERL-02 under the supervision of

E. William East, Project Manager (CEERD-CF-N)

*Construction Engineering Research Laboratory
US Army Engineer Research and Development Center
2902 Newmark Drive
Champaign, IL 61822*

The US Army Engineer Research and Development Center (ERDC) solves the nation's toughest engineering and environmental challenges. ERDC develops innovative solutions in civil and military engineering, geospatial sciences, water resources, and environmental sciences for the Army, the Department of Defense, civilian agencies, and our nation's public good. Find out more at www.erdc.usace.army.mil.

To search for other technical reports published by ERDC, visit the ERDC online library at <http://acwc.sdp.sirsi.net/client/default>.

Specifiers Properties information exchange (SPie)

Minimum Building Information Model (BIM) Object Definitions

Mark Kalin and Robert Weygant

*Kalin Associates, Inc
1121 Washington Street
Newton, MA 02465*

Final Report

Approved for public release; distribution is unlimited.

Prepared for Headquarters, US Army Corps of Engineers
Washington, DC 20314-1000

Under Cooperative Research and Development Agreement CRADA-07-CERL-02

Monitored by Construction Engineering Research Laboratory
US Army Engineer Research and Development Center
Champaign, IL 61822-1076

Abstract

The use of Building Information Modeling (BIM) technology beyond geometric collision detection requires that owners specify minimum content standards and define the formats in which BIM data are to be delivered. Such standards can be viewed as performance-based specifications for information deliverables that may be objectively tested and enforced. This report documents the specification of minimum BIM object definitions of 498 BIM object classes. These specifications were derived from Unified Facilities Guide Specifications (UFGS) requirements and typical equipment schedules published in “The COBie Guide” (<http://buildingsmartalliance.org/index.php/projects/cobieguide/>). Each object is classified based on the OmniClass Product Table Schema (<http://www.omniclass.org/>).

The National Building Information Model Standard (NBIMS-US) has begun the process of coordinating the development of information-exchange standards in the United States. This document establishes the proposed minimum BIM object definitions for submittal under the round of NBIMS-US balloting scheduled for 2013.

Contents

Abstract	ii
Tables	iv
Preface	v
Unit Conversion Factors	vi
1 Introduction.....	1
1.1 Background.....	1
1.2 Objective	1
1.3 Approach	1
2 Authoritative Sources.....	3
2.1 Unified Facilities Guide Specifications	3
2.2 The COBie Guide.....	4
3 SPie Templates.....	6
3.1 Description.....	6
3.1.1 Column 1 - Property Name	6
3.1.2 Column 2 – Authoritative Source.....	6
3.1.3 Column 3 – Typical Units of Measure.....	6
3.1.4 Column 4 – Representative Values.....	7
3.2 Example	7
3.3 Complete List.....	7
4 Conclusions and Recommendations	9
4.1 Conclusions	9
4.2 Recommendations	10
References	11
Appendix A: SPie Property Summary	12
Appendix B: Proposed SPie Templates.....	25

Tables

Table 1. UFGS Sections Included in SPie.....	3
Table 2. UFGS Sections not Included in SPie.	4
Table 3. Example Interior Lighting Template.....	7

Preface

This study was conducted for the US Army Engineer Research and Development Center, Construction Engineering Research Laboratory (ERDC-CERL) and the National Institute of Building Sciences (NIBS) by Kalin Associates, Inc., under CRADA-07-CERL-02, “Cooperative Research and Development Agreement Between US Army Engineer Research and Development Center—Construction Engineering Laboratory and National Institute Of Building Sciences.” The technical reviewer was Dr. E. William East (CEERD-CF-N), and the project manager at NIBS was Dominique Fernandez.

The work was supervised and monitored by the Engineering Processes Branch (CF-N) of the Facilities Division (CF), ERDC-CERL. Dr. East was the Project Manager. At the time of publication, Donald K. Hicks was Chief, CEERD-CF-N; L. Michael Golish was Chief, CEERD-CF; and Martin J. Savoie, CEERD-CV-ZT, was the Technical Director for Installations. The Deputy Director of ERDC-CERL was Dr. Kirankumar Topudurti and the Director was Dr. Ilker Adiguzel.

COL Kevin J. Wilson was the Commander of ERDC, and Dr. Jeffery P. Holland was the Director.

Unit Conversion Factors

Multiply	By	To Obtain
cubic feet	0.02831685	cubic meters
cubic inches	1.6387064 E-05	cubic meters
cubic yards	0.7645549	cubic meters
degrees Fahrenheit	(F-32)/1.8	degrees Celsius
feet	0.3048	meters
gallons (US liquid)	3.785412 E-03	cubic meters
horsepower (550 foot-pounds force per second)	745.6999	watts
inches	0.0254	meters
pounds (mass)	0.45359237	kilograms
pounds (mass) per cubic foot	16.01846	kilograms per cubic meter
pounds (mass) per cubic inch	2.757990 E+04	kilograms per cubic meter
pounds (mass) per square foot	4.882428	kilograms per square meter
pounds (mass) per square yard	0.542492	kilograms per square meter
square feet	0.09290304	square meters
square inches	6.4516 E-04	square meters
yards	0.9144	meters

1 Introduction

1.1 Background

The need to develop minimum product property sets was presented at National Institute of Building Sciences meetings in 2007 by Mr. Kalin, President Kalin and Associates, and Dr. East, Engineer Research and Development Center, Construction Engineering Research Laboratory (East 2010). To support this effort, the Specifiers' Properties information exchange (SPie, pronounced "spy") project was initiated by the buildingSMART alliance, a Council of the National Institute of Building Sciences. The SPie project has undergone several iterations of engagement with United States design and manufacturing sectors. While providing successful demonstrations of the concepts needed to implement SPie, these efforts have not been successful in developing a national standard for minimum BIM object properties.

1.2 Objective

The objective of this project was to develop a proposed minimum specification for Building Information Model (BIM) objects. To determine if this effort is successful the following criteria must be considered. First, is the source of the specification derived from authoritative sources? Second, is the expected use of the specification consistent with professional practice? Third, can existing publication mechanism for the exchange of the specified information be employed at no additional cost to all parties?

1.3 Approach

1. A catalog of the United States federal government's Unified Facility Guide Specifications (UFGS) (WBDG 2012) containing objects commonly found in BIM software was created.
2. For each relevant UFGS sections the list of products for each commonly found BIM object was compiled.
3. Specific UFGS-required properties for each of the products were cataloged as the UFGS properties.
4. Standard heading information for all product properties were added to the UFGS property templates.

5. Industry practice that identifies product selection criteria found in product and equipment schedules were added from the internationally reviewed COBie Guide (East 2012).
6. The complied specification of minimum product properties was compiled into this report.

2 Authoritative Sources

Two authoritative sources were used to create the SPie templates published in this report. The first was the Unified Facilities Guide Specifications (WBDG 2012) and the second was The COBie Guide (East 2012).

2.1 Unified Facilities Guide Specifications

The UFGS consists of 700 sections and over 21,000 pages. The content of these sections were reviewed to identify those sections whose products, materials, and/or equipment are commonly found as objects in BIM modeling software. Based on this review the following specification sections were identified as relevant to this project:

Table 1. UFGS Sections Included in SPie.

DIVISION 03 - CONCRETE
DIVISION 04 - MASONRY
DIVISION 05 - METALS
DIVISION 06 - WOOD, PLASTICS, & COMPOSITES
DIVISION 07 - THERMAL AND MOISTURE PROTECTION
DIVISION 08 - OPENINGS
DIVISION 09 - FINISHES
DIVISION 10 - SPECIALTIES
DIVISION 11 - EQUIPMENT
DIVISION 12 - FURNISHINGS
DIVISION 13 - SPECIAL CONSTRUCTION
DIVISION 14 - CONVEYING EQUIPMENT
DIVISION 21 - FIRE SUPPRESSION
DIVISION 22 - PLUMBING
DIVISION 23 - HEATING, VENTILATING, & AIR CONDITIONING
DIVISION 25 - INTEGRATED AUTOMATION
DIVISION 26 - ELECTRICAL
DIVISION 27 - COMMUNICATIONS
DIVISION 28 - ELECTRONIC SAFETY & SECURITY

The UFGS sections not included in this project were those less related to building assets, and those for specialized project types that would not be widely applicable.

Table 2. UFGS Sections not Included in SPie.

DIVISION 0 – PROCUREMENT & CONTRACTING REQUIREMENTS
DIVISION 1 – GENERAL REQUIREMENTS
DIVISION 2 – EXISTING CONDITIONS
DIVISION 31 – EARTHWORK
DIVISION 32 - EXTERIOR IMPROVEMENTS
DIVISION 33 - UTILITIES
DIVISION 34 - TRANSPORTATION
DIVISION 35 - WATERWAY & MARINE CONSTRUCTION
DIVISION 40 - PROCESS INTEGRATION
DIVISION 41 – MATL PROCESSING & HANDLING EQUIPMENT
DIVISION 42 - PROCESS HEATING, COOLING, & DRYING EQUIP
DIVISION 43 - PROCESS GAS & LIQUID HANDLING, & STOR EQUIP
DIVISION 44 - POLLUTION & WASTE CONTROL EQUIPMENT
DIVISION 46 - WATER & WASTEWATER EQUIPMENT
DIVISION 48 - ELECTRICAL POWER GENERATION

2.2 The COBie Guide

The COBie Guide (East 2012) is the internationally reviewed commentary that accompanies the United States National BIM Standard (NBIMS-US) version2 standard, Construction-Operations Building information exchange (COBie) specification. COBie is a specification representing managed facility assets (East 2011). COBie information is delivered during the project in a series of stages identified in the Life-Cycle information exchange (East 2009) project.

While the production and consumption of COBie data using Commercial Off The Shelf (COTS) software has been demonstrated in eleven public meetings that began in July 2008. While COBie provides the format for facility asset information, it does not specify the requirements for specific product properties.

Given the absence of a United States standard for product properties, COBie Guide was developed to provide a minimum quality standard upon which BIM deliverables, in COBie format, could be evaluated. This minimum quality standard was that BIM data for managed facility assets would exactly match that information appearing on design drawing product and equipment schedules.

Tables within the COBie Guide provide typical equipment schedules found in standard construction documents of United States government federal agencies. During 2012 the COBie Guide underwent a 90 day international review and was updated to reflect typical product properties found on standard design drawings.

The capability of design software to meet the criteria that “the data match the drawings” was publically tested at the January 2013 buildingSMART alliance Challenge (East 2013). The COBie Guide will be submitted for NBIMS-version 3 balloting as an industry “best practice.”

3 SPie Templates

3.1 Description

Following a review of the UFGS sections noted in Table 1 and a review of the related COBie Guide tables, templates were prepared for 498 individual product specifications. Each of these templates was developed from a single generic template. This generic template has four columns.

3.1.1 Column 1 - Property Name

The rows of the first column list the proposed product properties for that product. The primary interest in this catalog of product properties is to identify the properties actually published Unified Facilities Guide Specifications and COBie Guide. The merging of these properties provide the pragmatic specification that are mandated by specification and typically found on design drawing equipment and product schedules.

No attempt was made to standardize the attribute list, in part because the UFGS does not use the same terms throughout. For example, sprinklers vs sprinkler heads; underground piping components vs buried water piping systems. A complete list of all product properties is provided in Appendix A.

3.1.2 Column 2 – Authoritative Source

The second column identifies the source of the property (either UFGS or COBie Guide). All properties in these templates must be based on one of these two sources.

3.1.3 Column 3 – Typical Units of Measure

The third column identifies the typical units of measure, if applicable. Where not applicable, “n/a” was inserted for clarity and to demonstrate completeness of the template. UFGS specifications evaluated typically identified metric units. Where imperial measurement is included, both measurement systems are found in relevant UFGS sections.

Rather than being a definitive requirement for one measurement system or another, these templates provide an example of the type of measure-

ment unit that is required by providing an example. SPie templates, and the related COBie format, both require that all properties be explicitly defined by both quantum and unit.

3.1.4 Column 4 – Representative Values

Column 4 includes the value of the attributes, separated by a hyphen where multiple values are listed in the COBie Guide or in UFGS. Depending on the requirements of an individual project, one or more values could be applicable. For the referenced UFGS section, the date of publication is included after the name of the section.

3.2 Example

Table 3 provides an example of a template showing the organization of the table into the four columns.

3.3 Complete List

All of the proposed templates are captured in Appendix B.

Table 3. Example Interior Lighting Template.

UFGS Section and Date	UFGS MAY 2012	26 51 00.00 40	INTERIOR LIGHTING 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-35 47 11	Lighting Fixtures
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Lens Type	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Mounting	COBie Guide/UFGS 2.5/2.6	n/a	recess - flush - suspended
Lamp Type	COBie Guide	n/a	insert value
Lamp Count	COBie Guide	Each	insert value

UFGS Section and Date	UFGS MAY 2012	26 51 00.00 40	INTERIOR LIGHTING 02/11
Lamp Power	COBie Guide	W	insert value
Function	COBie Guide	n/a	insert value
Light Path	COBie Guide	n/a	insert value
Sustainability	COBie Guide/UFGS 1.8	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	interior lighting
Lamp Type	UFGS 2.2/2.3/2.4	n/a	fluorescent - high-intensity-discharge - incandescent
Ballasts	UFGS 2.2/2.3	n/a	T-8 - F17T8 - T-5 - F96T8 - T-8 dimming - electromagnetic - high-pressure sodium - low-pressure sodium - metal-halide

4 Conclusions and Recommendations

4.1 Conclusions

These templates are intended to be used in both project specifications and BIM programs to document minimum product attributes. They can easily function as criteria for product data selections and design decisions.

Perhaps the highest value of the templates is as a stable starting point around which product manufacturers, specifiers, constructors and facility operators can rally. The general workflow of a project dictates that most design considerations are necessary prior to the construction documents phase and often may or may not be included in specifications. A specification rarely contains all of the information necessary for a BIM, and often there is a great deal of information that is specified but is not relevant in a BIM. The templates are organized by work results and products and should be augmented further to include the attributes necessary not just for specification, but for design, construction, and operations and maintenance. (Previous efforts to engage facility managers to define an Operators Properties information exchange (OPie) did not succeed due to the lack of community response.) Currently the templates are categorized by work result and by product. In the future, they can be further organized by phase, trade, space, or any other logical identifier.

In contrast, it is apparent that the current UFGS does not have a common template between sections, nor many of the criteria established in the new COBie Guide as required asset data. UFGS lacks the standardization and unification necessary to allow information to be managed in a database such as COBie without a considerable amount of manual effort. Unlike several other national master specification systems in use in the United States, Canada, and Great Britain, the current UFGS section structure does not lend itself to direct links between specifications and drawings, and specifications and models. As the UFGS is updated over time, and as the SpecsIntact software which is used to author sections grows in functionality, this lack-of-connectivity can surely be overcome.

It is the intention of the templates is to allow information to be captured early in a project cycle and carried from design through construction and into facilities operations and maintenance. Templates can facilitate the

homogenization of information throughout the entire project cycle and be uniformly presented in the various deliverables such as specifications, drawings and schedules. It is important to know what attributes are necessary and when they need to be available. By building a stable foundation upon these templates, the balance of the information exchange requirements can be developed in a modular as-needed fashion rather than attempting to make all project decisions concurrently.

4.2 Recommendations

Specification experts preparing updates to the UFGS should add template information within the specification structure, and expanding coordination with the templates. Future updates to UFGS should confirm that standardized language is used across sections for ease of integration with data and modeling programs. The UFGS should standardize its formatting as it likely evolves to a database driven specification which allows links between a model and its attributed references.

Contracting officers should consider requiring the templates as a project deliverable during both the design development and construction documents phases of the project.

Architects and engineers should consider integrating the templates within their project BIM models, and with their office master specifications.

Building product manufacturers should consider matching their data with the templates for ease of importing data into the model, and should consider expanding the templates with the information they need for pricing and fabrications.

Contractors should consider updating the templates during construction to streamline product procurement, and to create an as-built BIM.

Facility managers should consider updating the templates on a regular basis, either with in-house systems or with external BIM model-of-record providers.

Finally, this product catalog should become the starting point to evolve a United States library of common BIM objects.

References

- (CSI 2012) Construction Specifications Institute (2012) "OmniClass Table 23 – Products, OCCS Development Committee Secretariat, National Standard May 2012,
<http://www.omniclass.org/> (cited 23-Jan-13).
- (East 2009) East, E. William (2009) "Life-Cycle information exchange (LCie)" buildingSMART alliance Project Page,
<http://www.buildingsmartalliance.org/index.php/projects/activeprojects/140> (cited 23-Jan-13).
- (East 2010) East, E. William (2010) "Specifiers' Properties information exchange (SPie)," buildingSMART alliance, Project Page,
<http://www.buildingsmartalliance.org/index.php/projects/activeprojects/32> (cited 23-Jan-13).
- (East 2011) East, E. William (2011) "Construction Operations Building information exchange (COBie)," Whole Building Design Guide,
<http://www.wbdg.org/resources/cobie.php> (cited 23-Jan-13).
- (East 2012) East, E. William (2012) "The COBie Guide," buildingSMART alliance,
<http://buildingsmartalliance.org/index.php/projects/cobieguide/> (cited 23-Jan-13).
- (East 2013) East, E. William (2013) "buildingSMART alliance January 2013 Challenge,"
http://buildingsmartalliance.org/index.php/newsevents/proceedings/buildings_martchallenge13/ (cited 23-Jan-13).
- (WBDG 2012) Whole Building Design Guide (2012) "Unified Facilities Guide Specifications," 27 Nov 2012, http://www.wbdg.orgccb/browse_cat.php?c=3 (cited 23-Jan-13).

Appendix A: SPie Property Summary

AAMA Rating	Airspace Fill
Aboveground Piping Components	Alarm Initiating Devices
Aboveground Piping Materials	Alarm Verification
Aboveground Piping Systems	Alarms and Devices
Aboveground Piping Systems for Concentrate	Ambient Temp
Aboveground Piping Systems for Solution	Anchor Type
Accelerating Amps	Anodes
Accessory Material	Antennas
Acoustical Rating	Anti-Terrorism Performance
Actuation	Appearance Grade
Adhesive Type	Application Method
Adhesives	Armrest Type
Admixtures	Array Aperture Area
Age Group	Asphalt Emulsion Type
Aggregate	Asphalt Type
Aggregate Type	Astragal
AIC Rating	Attachment Method
Air Compressor	Attenuation Class
Air Compressors	Automatic Cleaning System
Air Entrainment	Automatic Temperature Control Type
Air Flow	AWI Quality Grade
Air Handling Unit Type	AWS Requirement
Air Handling Units	Back Material
Air Infiltration	Backbone Cabling
Air Piping and Accessories	Backer Panel
Air Receivers and Separators	Backer Type
Air Systems Equipment	Backflow Preventers
Air Terminal Unit Type	Backing
Air-Conditioner Type	Backstop
Airspace Depth	Ballast
	Ballasts

Base Coat	Cable
Base Coating Type	Cable Tray Materials
Base Flashing Type	Cable Trays
Base Material	Cable Types
Base Sheet Type	Cage
Basis-of-Design Manufacturer	Cameras
Basis-of-Design Model	Cap Sheet Type
Basis-of-Design Notes	Capacity
Battery Capacity	Car Door Type
BHMA Finish	Carrier Configuration
Binder Matrix	Caulking
Binder Type	Cavity Width
Bitumen Type	Ceiling Unit Pattern
Bituminous Plastic Cement Type	Ceiling Unit Type
Board Mounting	Cement Type
Board Size	Chemical Resistance
Board Type	Chilled Water Flow
Boiler Type	Chilled Water Rate
Bonding Agent	Chiller Media
Bonding Compound	Chiller Type
Breaking Load	Chip Type
Building Air Tightness	Churn Pressure
Bumpers	Cleaning Material
Buried Piping Systems	Cleaning Method
Buried Water Piping Systems	Cleanliness Level Classification
Burners	Cleanouts
Busways	Closer Type
Butyl Rubber Sheeting Thickness	Closing Device
Cab Enclosure Door Finish	Coal-Tar Pitch Type
Cab Enclosure Ceiling	Coating
Cab Enclosure Door Finish	Coating Formulation
Cab Enclosure Floor Finish	Coating System
Cab Enclosure Wall Finish	Coating Type
Cabinet Finish	Coatings
Cabinet Material	Coefficient of Thermal Expansion
Cabinet Type	Cohesion/Adhesion strength

Coil Air Pressure Drop	Consolidant Type
Coil Capacity	Construction
Coil Flow	Construction Type
Coil Velocity	Condensation Index
Coil Water Pressure Drop	Control Devices
Cold Water	Control Panel Type
Color	Controller Type
Communication Equipment	Controller Type
Communicators	Cooling Coil Delta P
Compartment Construction	Cooling Rows
Component Attachment	Cooling Towers
Component Category	Copper-Silver Ionization System
Component Class	Core Type
Component Construction	Corner Angles
Component Finish	Corrugation Height
Component Grade	Counterbalance Rating
Component Material	Cover Construction
Component Size	CRF
Component Style	Cross Ties
Component Thickness	Cross-sectional Area
Component Type	Curing Material
Component Usage	Current
Components	Curtain
Composite Self-Adhering Sheeting	Cushion Type
Compressed Air Dryer	Day Gate
Compressed Air System	Day Gate Type
Compressive Strength	Dead Load
Compressor Cooling Water Flow Rate	Deck Coating
Concentrated Load	Deck Material
Concrete Class	Deck Type
Concrete Insert Type	Decking Type
Condensation Resistance Factor	Deflection
Condensers	Density of Application of Water
Conduit and Fittings	Description
Connection	Design Load
Connection Type	Design Pressure

Desiccant System	Dry Density
Detection Alarms	Dry-Pipe Maintenance Air
Detection Coverage	Duct Applications
Detection Systems	Duct Insulation
Detectors	Duct Systems
Discharge Capacity	Duty Rating
Divider Material	Efficiency
Domestic Water Service Meter	Efficiency at Head Capacity
Door Actuation	Egress Door
Door Construction	Electric Field Attenuation
Door Core	Electric Interference Attenuation
Door Count	Electrical Components
Door Designation	Electrical Resistance
Door Exterior Covering	Electrical Work
Door Fabric	Electrode Type
Door Facing	Electromatic Attenuation
Door Finish	Elevator Operation
Door Height	Elevator Service
Door Interior Covering	Elevator Type
Door Material	Elongation
Door Operating Force	Emergency Recovery Devices
Door Operation	Emissions
Door Position Switch Type	Enclosure Rating
Door Stop Type	Enclosures
Door Style	Energy Efficiency Ratio (EER)
Door Thickness	Energy Source
Door Type	Entering Air Temp DB
Door Type, Custom	Entering Air Temp WB
Door Type, Standard	Entering Water Temp
Door Width	Entering Water Temperature
Drain	Epoxy Binder Type
Drains	Epoxy Grout Type
Drains and Backwater Valves	Epoxy Resin
Drawer Count	Equip Ground Bus
Drive	Equipment Capacity
Drive Control Type	Equipment Type

Evaporative Cooler Type	Fire Department Connections
Examination Level	Fire Detecting Devices
Exit Static Pressure	Fire Label Rating
Expansion Joint Filler Material	Fire Protection System
Exterior Door Finish	Fire Pump Operation
Extinguisher Type	Fire Rated
Fabric Weight	Fire Rating
Face Dimensions	Fire Resistance Rating
Facer	Fittings and Accessories
Facing Aggregate Type	Fixture Type
Fan Ext Pressure Drop	Fixtures
Fan Flow - Maximum	Flame Resistance
Fan Flow - Nominal	Flame Spread
Fan Motor Power	Flame Spread Rating
Fan Outside Flow	Flange Width
Fan Sound Level	Flashing Material
Fan Speed	Flashing Type
Fan Type	Flexural Modulus
Fastening method	Flexural Modulus-Full Section
Felt Underlayment	Flexural Strength
FF Designation	Floor Covering
Fiber Optic Cabling	Floor System Type
Fiber Type	Floor Type
Fiber Volume Fraction	Flooring Finish
Fibrous Asphalt Type	Flooring Grade
Filler Type	Flooring Material
Film Thickness	Flooring Thickness
Filter Rating	Flooring Type
Filter Type	Flooring Unit Dimensions
Filter Types	Flow Rate
Finish	Fluid-Applied Membrane Type
Finish Category	Form Liner Type
Finish Coat	Form Material
Finish Flooring	Form Type
Finish Type	Frame Finish
Fire Classification	Frame Head

Frame Jam	Glazing Type
Frame Material	Gloss Level
Frame Material	Grade
Frame Sill	Grid System
Frame Style	Grit Type
Frame Type	Grounding Components
Framing Grade	Grounding Method
Framing Members	Grout Coating Type
Free Swell Rating	Grout Compressive Strength
Frequency	Grout Flow
Frequency	Grout Type
FRP Strengthening	Gypsum Backing Board
Fuel Burning Equipment	Gypsum Base
Fuel Contributed	Handle Type
Fuel Type	Hardware Finish
Fuel Type	Hardware Item Category
Function	Hardware Item Grade
Furnace Type	Hardware Item Type
Furnaces	Hardware Material
Furniture System Type	Hardware Set
Gas Piping	Hardware Type
Gas Systems	Heading
Gas Velocity	Healthcare Code Criteria
General Components	Heat Detectors
Generation Interval	Heat Pump Type
GFCI	Heat Reclaim
Glass Class	Heat Released
Glass Condition	Heaters
Glass Kind	Heating and Cooling Equipment Type
Glass Quality	Height Adjustment Range
Glass Type	Hinge Type
Glazing Assembly Type	Hood
Glazing Color	Horizontal Bus Current
Glazing Compound	Horizontal Lateral Force Resistance
Glazing Material	Horizontal Load
Glazing Method	Hot Water

Hot-Water Storage Tanks	Lamp Type
Humidifier Type	Lamps
Hydraulic Design Discharge Density	Latching
Illuminated	Lath Type
Impact Load	Lath Weight
Impact Resistance	Lead Thickness
Impact Resistant	Leaving Air Temp DB
Inner Panel Material	Leaving Air Temp WB
Input Power	Leaving Water Temp
Install Method	Leaving Water Temperature
Insulating Cement	Lens Type
Insulation Materials	Lifting Device Type
Insulation Thermal Resistance	Light Path
Insulation Type	Light Reflectance Coefficient
Integrated Part-Load Value (IPLV)	Lighting and Navigation Aids
Interceptors	Lighting Control
Interior Door Finish	Lining
Interior Noise Level	Lining Materials
Interior Sensors	Live Load
Intermediate Coat	Location
Intermediate Coat Type	Lock Type
Interply Sheet Type	Locking Device
Intrusion Detection System Subsystems	Locking Mechanism
Isolated Ground Bus	Logical Class
Isolator Types	Louver Finish
Jacketing	Louver Material
Jamb Guides	Louver NFVA
Joinery Method	Louver Type
Joint Material	Luminaire Controls
Joint Reinforcement	Luminaire Light Source
Joint Type	Luminaires
Keying System	Machine Room Heat Load
Ladder Cage	Magnetic Interference Attenuation
Ladder Finish	Main Breaker Mounting
Lamp Count	Main Bus Current
Lamp Power	Manual Valves

Mat Thickness	Motor Controller
Mat Type	Motor Types
Mat Usage	Mounting
Material	Mounting
Material Classification	Mounting Height
Material Thickness	Mounting Method
Materials	Name
Maximum Aggregate Size	Naval Equipment Symbol
Maximum Deflection	Net Compressed Air Output
Maximum Flow Rate	Neutral Bus
Maximum Power Output	NFVA
Maximum Sphere Size Ejection	Noise Level
Maximum Water-Cement Ratio	Noise Reduction
Membrane Fabric	Noise Reduction Coefficient
Membrane Protection	Noise Reduction Coefficient Range
Membrane Thickness (Wet)	Nominal Panel Size
Membrane Type	Non-Destructive Examination Method
Mesh Gage	Notification Appliances
Metal Type	Notification Devices
Metallic Waterproofing Compound	Number of Hoist Way Openings Front
Metallizing Wire Type	Number of Hoist Way Openings Rear
Metalwork	Number of Panes
MG Motor Power	Number of Poles
Minimum Bus Bracing	Number of Stops
Minimum Oven Dry Density	Number of Wires
Miscellaneous Materials	OCCS Table 23 Properties
Miscellaneous Piping Items	Opening Provisions
Mix Design	Operating Cycles
Module Capacity	Operating Temperature
Modules	Operating Weight
Modulus of Elasticity	Operation
Moisture Content	Operation Force
Moisture Vapor Transmission	Operation Speed
Mortar Compressive Strength	Output Media
Mortar Type	Output Power
Motor Components	Overhead Drum

Packing	Ply Sheet Type
Paint Formula	Ply Thickness
Panel Construction	Pole Windload Design
Panel Finish	Poles
Panel Height	Pool Water Safety Vacuum Release
Panel Insulation	Portland Cement Type
Panel Insulation Type	Power
Panel Material	Power Connection Stations
Panel System Type	Pozzalan Type
Panel Thickness	Predecorated
Panel Type	Preservative Treatment
Panel Width	Pressure Drop
Partition Covering	Pressure Valves
Partition Material	Pressurization
Partiton Type	Prestressing Component
Passes	Primary Electrical Characteristics
Pattern	Primer
Peel Strength	Primer Type
Percent Solids	Proportioning
Performance Class	Protection
Personnel Door	Protection Method
Phase	Protective Coating
Phase	Pump Design Operating Point
Pick-Up Insert Type	Pump Impeller Type
Pipe and Fittings	Pump Motor Type
Pipe Hangers, Inserts, Supports	Pump Operating Speed
Pipe Insulation	Pump Service
Pipe Insulation Material	Pump Type
Pipe Joint Materials	Pumps
Piping	Radiant Flux
Piping Specialties	Radio Devices
Piping Type	Rail Construction
Placement	Rail Diameter
Plane Wave Attenuation	Rail Finish
Plane Wave Interference Attenuation	Range of Slump
Plumbing Fixtures	Rapid Hardening Repair Material

Rated Capacity	SCR HP Rating
Rated Flow	Screen Material
Rated Flow	Sealant Compound
Rated Load	Sealant Type
Rated Speed	Sealer
Rating	Sealer pH
Reception Equipment	Sealer Type
Reference Electrodes	Seaming Method
Refrigerant Type	Secondary Electrical Characteristics
Refrigeration System	Security Code
Reinforcement	Sensible Capacity
Reinforcement Material	Servers
Reinforcement Type	Shade Type
Reinforcing	Shading Coefficient
Reinforcing Material	Shear Modulus-Transverse
Release Agent	Shear Strength
Repair Material	Sheathing Board
Residual Pressure at Discharge	Sheathing Type
Resilient Base Type	Sheet Material
Resin Type	Shielded
Restraining Device	Shielding Attenuation
Riser Alarm Equipment	Shingle Type
Riser Type	Short Beam Shear
Rock Shield	Short Circuit Interrupting Rating
Rolling Load	Shower Pans
Roof Panel Material	Shutter Type
Roof Panel Profile	Sign Finish
Roof Panel Type	Sign Material
Roof Panel Yield	Sign Mounting
Roof Type	Sign Type
Room Size	Signal Stations
Room Style	Slab Edge Type
Room Type	Slat Size
Runout Inlet Size	Slate Type
Runout Outlet Size	Smoke Density
Sanitary Fixture Water	Smoke Developed

Smoke Development	Surface Type
Smoke Sensors	Surfacing
Snow Load	Surfacing Material
Solar Collector Construction	Suspension System
Solar Heat Gain Coefficient	Sustainability
Solution Application Density	System Capacity
Sound Absorbing Material	System Cleaning Materials
Sound Absorption	System Components
Sound Attenuation	System Description
Space Heater Type	System Design
Span Rating	System Dry Film Thickness
Species/Type	System Equipment
Speed	System Type
Sprinkler Heads	Tackboard Covering
Sprinkler System Design	Tape
Sprinklers	Telecommunications Cable Support
Stair Framing Type	Temperature Control Type
Standard Material	Temperature Range
Starting Amps	Temperature Valves
Static Control	Tensile Modulus
Static Design Resistance	Tensile Modulus of Elasticity
Steel Conformance	Tensile Strength
Steel Grade	Terminal Units
Steel Shape	Texture
Steel Type	Thermal Performance
Stile Width	Thermal Resistance
Stressing Tendon Type	Thermoplastic PVC Membrane
Structural Performance	Thickness
Subpurlin Type	Thickness
Subsystems	Threat Level
Support System	Threshold Material
Surface Abrasion	Tile Class
Surface Evaporation Retardant	Tile Thickness
Surface Hardener	Tile Type
Surface Pattern	Top Coating Type
Surface Raceways	Topcoat Type

Topping Material	Vacuum Systems
Total Capacity	Valve Material
Total Lead Equivalent Protection	Valves
Toughness Index	Valves
Transmitters	Vanity Type
Trap Primer Assemblies	Vanity Width
Traps	Vapor Retarder
Travel Length	Vent
Tread Type	Vent Diameter
Tubing Diameter	Ventilator Materials
Tuft Bind	Ventilator Type
Type	Vertical Bus Current
Type of Support	Vibration Isolation Bases
U Value	Vibration Isolation Mountings
U-Factor	Vision Panels
UFCS Section and Date	Visual Defects
Underground Piping Components	VOC Limit
Underground Piping Materials	Void Retainer Type
Underground Piping Systems	Voltage
Underlayment	Voltage
Uniform Load	Wall Liner
Unit Composition	Wall Location
Unit Heater and Ventilator Type	Wall Panel Core
Unit Heater Type	Wall Panel Profile
Unit Stress E	Wall Panel Type
Unit Stress Fb	Wall Panel Yield
Unit Stress Fc	Wallcovering Type
Unit Stress Ft	Waste
Unit Stress Fv	Waste Reduction
Unit Stress Rating	Water Absorption
Unit Type	Water Flow
Unitary Air Conditioner Type	Water Flow
Unloaded Compressor Horsepower	Water Hardness Effluent
Unloading Steps	Water Hardness Influent
Upholstery Material	Water Heaters
Upholstery Weave	Water Infiltration

Water Inlet	Window Finish
Water Penetration	Window Material
Water Pressure Booster System	Window Number
Water Repellent	Window Operation
Water Treatment	Window Rating
Water Vapor Permeance	Window Size - Height
Waterstop Type	Window Size - Length
Weave	Window Size - Width
Welding Method	Window Type
Wheel Assembly	Wire Line Cabling
Wind Load	Wire Rope and Fitting Type
Wind Loads	Wire Tie Type
Wind Uplift Resistance	Wood Consolidant Type
Wind Uplift Resistance Class	Working Pressure
Window Category	X-Ray Resistant

Appendix B: Proposed SPie Templates

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	03 01 30.71	CONCRETE REHABILITATION 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 11	Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Epoxy Binder Type	UFGS 2.1.1.1	n/a	Insert type, grade, class
Epoxy Grout Type	UFGS 2.1.1.2	n/a	Insert type, grade, class
Aggregate	UFGS 2.1.2	n/a	no.8 sieve - no.40 sieve
UFGS Section and Date	UFGS MAY 2012	03 01 30	RESTORATION OF CONCRETE IN HISTORIC STRUCTURES 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 27 13 15	Masonry Restoration and Cleaning Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Cement Type	UFGS 2.1.4.1	n/a	Type I - type II - low -alkalai
Pozzolan Type	UFGS 2.1.4.2	n/a	Class C - Class F
Epoxy Grout Type	UFGS 2.1.15	n/a	I - II
UFGS Section and Date	UFGS MAY 2012	03 01 32	CONCRETE REHABILITATION FOR CIVIL WORKS 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 27 13 13 15	Concrete Rehabilitation Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Mortar Compressive Strength	UFGS 1.5.1	kPa	Insert Value

Attribute	Source	Unit	Value
Grout Compressive Strength	UFGS 1.5.1	kPa	Insert Value
Rapid Hardening Repair Material	UFGS 2.1.1.1	n/a	type R1 - type R2 - type R3
Aggregate	UFGS 2.1.2	n/a	no.8 sieve - no.40 sieve - insert value
Reinforcement	UFGS 2.1.5	n/a	polypropylene - steel
Epoxy Binder Type	UFGS 2.7.1	n/a	Insert type, grade, class
Epoxy Grout Type	UFGS 2.7.1	n/a	Insert type, grade, class

UFGS Section and Date	UFGS MAY 2012	03 11 13.00 10	STRUCTURAL CAST-IN-PLACE CONCRETE FORMING 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 17	Concrete Formwork
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Finish Type	UFGS 2.1	n/a	class A - class B - class C - class D
Void Retainer Type	UFGS 2.2	n/a	polystyrene - precast concrete

UFGS Section and Date	UFGS MAY 2012	03 11 19.00 10	INSULATING CONCRETE FORMING 02/12
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 17 17	Insulated Concrete Forms
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.6	n/a	reduced emissions - regional - recycled content
Cavity Width	UFGS 2.2.2	mm	100 - 150 - 200 - 250 - 300
Thermal Resistance	UFGS 2.2.2	R	22 - 16 - 14
Sound Attenuation	UFGS 2.2.2	STC	50
Form Material	UFGS 2.3	n/a	expanded polystyrene, type II
Cross Ties	UFGS 2.3	n/a	plastic - metal

UFGS Section and Date	UFGS MAY 2012	03 15 00.00 10	CONCRETE ACCESSORIES 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 21	Reinforcement and Prestressing Components
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes

Attribute	Source	Unit	Value
Sustainability	COBie Guide	n/a	insert reqts
Component Type	UFGS 2.1/2.2	n/a	contraction joint strip - expansion joint filler
Sealant Type	UFGS 2.3	n/a	preformed polychloroprene elastomeric - field molded type T - field molded type NT - hot applied type I - hot applied type II - hot applied type III
Waterstop Type	UFGS 2.4	n/a	flexible metallic - rigid metallic - non-metallic - non-metallic hydrophylic - preformed elastomeric

UFGS Section and Date	UFGS MAY 2012	03 20 00.00 10	CONCRETE REINFORCING 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 21	Reinforcement and Prestressing Components
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Reinforcement Type	UFGS 2.1-2.4	n/a	dowel - bar mat - bar - fabric
Reinforcement Material	UFGS 2.1-2.4	n/a	galvanized steel - epoxy coated steel - polypropylene
Wire Tie Type	UFGS 2.5	n/a	galvanized steel - epoxy coated steel - vinyl coated steel

UFGS Section and Date	UFGS MAY 2012	03 23 00	STEEL STRESSING TENDONS AND ACCESSORIES FOR PRESTRESSED CONCRETE 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31	Other Special Foundations
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Stressing Tendon Type	UFGS 2.1.1	n/a	Seven-Wire Stress-Relieved Strand, Grade 250 - Seven-Wire Stress-Relieved Strand, Grade 270 - Stress-Relieved Wire - Steel Bar
Grout Type	UFGS 2.1.2	n/a	type I - type II

UFGS Section and Date	UFGS MAY 2012	03 30 00.00 10	CAST-IN-PLACE CONCRETE 11/10
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 11	Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes

Attribute	Source	Unit	Value
Sustainability	COBie Guide	n/a	regional - recycled content
Surface Type	UFGS 1.4.10	n/a	bullfloated - straightedged - float finish - trowel finish - very flat (FF)
FF Designation	UFGS 1.4.10	n/a	Insert Value
Compressive Strength	UFGS 1.4.11	Mpa	35 - 27.5 - 20
Flexural Strength	UFGS 1.4.11	Mpa	4.5
Cement Type	UFGS 2.1.1	n/a	portland type I - portland type II - portland type III - portland type V - IP - IP(MS) - IP(MH) - IS - IS(MS) - IS(MH) - pozzalan class c - pozzalan class F - GGBF Slag - silica fume
Aggregate	UFGS 2.2	n/a	insert reqts
Admixtures	UFGS 2.3	n/a	air-entraining - accelerating - water-reducing - surface retarder - expanding

UFGS Section and Date	UFGS MAY 2012	03 30 00	CAST-IN-PLACE CONCRETE 11/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31.11	Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.8	n/a	regional - recycled content
Form Type	UFGS 2.1	n/a	wood - plywood - plastic - carton - steel
Mix Design	UFGS 2.3	n/a	contractor-furnished
Compressive Strength	UFGS 2.3	MPa	35 - 27.5 - 20
Range of Slump	UFGS 2.3	n/a	Insert Value
Maximum Water-Cement Ratio	UFGS 2.3	n/a	Insert Value
Air Entrainment	UFGS 2.3	n/a	Insert Value
Cement Type	UFGS 2.4.1	n/a	portland type I - portland type II - portland type III - portland type V - IP - IP(MS) - IP(MH) - IS - IS(MS) - IS(MH) - pozzalan class c - pozzalan class F - GGBF Slag - silica fume
Aggregate	UFGS 2.4.3	n/a	insert reqts
Reinforcement Type	UFGS 2.5		dowel - bar mat - bar - fabric
Concrete Class	UFGS 2.8	n/a	3A - 3N - 4A - 4N - 2.5A - 2.5N - 5A - 5N

UFGS Section and Date	UFGS MAY 2012	03 30 53	MISCELLANEOUS CAST-IN-PLACE CONCRETE 04/08
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31.11	Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content

Attribute	Source	Unit	Value
Cement Type	UFGS 2.1.1	n/a	portland type I - portland type II - portland type III - portland type V - IP - IP(MS) - IP(MH) - IS - IS(MS) - IS(MH) - pozzalan class c - pozzalan class F - GGBF Slag - silica fume
Aggregate	UFGS 2.1.2	n/a	insert reqts
Admixtures	UFGS 2.1.3	n/a	air-entraining - accelerating - water-reducing - retarding
Compressive Strength	UFGS 2.2	MPa	34.5 - 20
Reinforcement Type	UFGS 2.3	n/a	bars - fabric
Form Type	UFGS 2.4	n/a	wood - plywood - plastic - steel
UFGS Section and Date	UFGS MAY 2012	03 31 01.00 10	CAST-IN-PLACE STRUCTURAL CONCRETE FOR CIVIL WORKS 11/10
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 11	Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Air Entrainment	UFGS 1.3.1	n/a	Insert Value
Range of Slump	UFGS 1.3.2	n/a	Insert Value
Compressive Strength	UFGS 1.3.5	MPa	35 - 27.5 - 20
Maximum Water-Cement Ratio	UFGS 1.3.6	n/a	Insert Value
Surface Type	UFGS 1.4.10	n/a	bulffloated - straightedged - float finish - trowel finish - very flat (FF)
FF Designation	UFGS 1.4.10	n/a	Insert Value
Cement Type	UFGS 2.1.1	n/a	portland type I - portland type II - portland type III - portland type V - IP - IP(MS) - IP(MH) - IS - IS(MS) - IS(MH) - pozzalan class c - pozzalan class F - GGBF Slag - silica fume
Maximum Aggregate Size	UFGS 2.1.2	sieve	Insert Value
Admixtures	UFGS 2.1.3	n/a	air-entraining - accelerating - water-reducing - retarding
UFGS Section and Date	UFGS MAY 2012	03 31 29	MARINE CONCRETE 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 11	Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Cement Type	UFGS 2.1	n/a	portland type I - portland type II - portland type III - portland type V - IP - IS - pozzalan class F - GGBF Slag - silica fume
Maximum Aggregate Size	UFGS 2.2	sieve	Insert Value

Attribute	Source	Unit	Value
Admixtures	UFGS 2.4	n/a	air-entraining - accelerating - water-reducing - retarding - air-entraining
Form Type	UFGS 2.6	n/a	wood - plywood - plastic - steel
Reinforcement Type	UFGS 2.7	n/a	prestressing steel - bar - fabric
UFGS Section and Date	UFGS MAY 2012	03 33 00	CAST-IN-PLACE ARCHITECTURAL CONCRETE 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 11	Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Aggregate Type	UFGS 2.1.1	n/a	Insert Value
Reinforcing	UFGS 2.1.2	n/a	Galvanized Steel
Sealer	UFGS 2.1.7	n/a	methyl methacrylate polymer acrylic emulsion, clear
UFGS Section and Date	UFGS MAY 2012	03 35 00.00 10	CONCRETE FINISHING 11/10
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 23	Concrete Finishing Product
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Topping Material	UFGS 2.1	n/a	light reflective - spark resistant - static disseminating
Bonding Compound	UFGS 2.2	n/a	
Epoxy Resin	UFGS 2.3	n/a	type III grade I - type III, grade II
Finish Category	UFGS 3.1	n/a	class A - class B - class C - class D
Finish Type	UFGS 3.1	n/a	smooth - grout-cleaned - textured - exposed coarse-aggregate - sandblast - tooled
UFGS Section and Date	UFGS MAY 2012	03 37 00	PREREPLACED-AGGREGATE CONCRETE 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 11	Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content

Attribute	Source	Unit	Value
Compressive Strength	UFGS 2.1.1	MPa	34.5 - 27.6 - 20.7 - 17.2
Cement Type	UFGS 2.2.1	n/a	portland type I - portland type II - pozzalan class c - pozzalan class F - pozzalan class N - GGBF Slag
Maximum Aggregate Size	UFGS 2.2.2	sieve	Insert Value
Admixtures	UFGS 2.2.3	n/a	air-entraining - grout fluidifier - water-reducing - retarding
Maximum Water-Cement Ratio	UFGS 2.3	n/a	Insert Value
Air Entrainment	UFGS 2.3	n/a	Insert Value
Grout Flow	UFGS 2.3	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	03 37 13	SHOTCRETE 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 11	Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Compressive Strength	UFGS 1.3.2	MPa	35 - 27.5 - 20
Flexural Strength	UFGS 1.3.3	Mpa	4.5
Toughness Index	UFGS 1.3.4	n/a	I10 - I20
Cement Type	UFGS 2.1.1	n/a	portland type I - portland type II - portland type III - portland type V - IP (MS) - IS - pozzalan class F - GGBF Slag - silica fume
Maximum Aggregate Size	UFGS 2.1.2	sieve	Insert Value
Admixtures	UFGS 2.1.4	n/a	insert value - accelerating - none
UFGS Section and Date	UFGS MAY 2012	03 37 23	ROLLER-COMPACTED CONCRETE FOR MASS CONCRETE CONSTRUCTION 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 11	Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Cement Type	UFGS 2.1.1	n/a	portland type I - portland type II - portland type III - portland type V - pozzalan class c - pozzalan class F - GGBF Slag
Admixtures	UFGS 2.1.2	n/a	air-entraining - water-reducing
Aggregate Type	UFGS 2.1.4	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	03 37 29	CONCRETE FOR CONCRETE CUTOFF WALLS 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 11	Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01

Attribute	Source	Unit	Value
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Cement Type	UFGS 2.2.1	n/a	portland type I - portland type II - pozzalan class C - pozzalan class F - GGBF Slag
Aggregate Type	UFGS 2.2.2	n/a	Insert Value
Admixtures	UFGS 2.2.3	n/a	air-entraining - accelerating - flowing concrete
UFGS Section and Date	UFGS MAY 2012	03 39 00.00 10	CONCRETE CURING 11/10
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 11	Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Curing Material	UFGS 2.1	n/a	impervious sheet - Membrane-Forming Compound - burlap and cotton mat
UFGS Section and Date	UFGS MAY 2012	03 40 00.00 10	PLANT-PRECAST CONCRETE PRODUCTS FOR BELOW GRADE CONSTRUCTION 08/06
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 15	Precast Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Compressive Strength	UFGS 1.2.5	MPa	35 - 27.5 - 20
Maximum Water-Cement Ratio	UFGS 1.2.5	n/a	Insert Value
Air Entrainment	UFGS 1.2.5	n/a	Insert Value
Cement Type	UFGS 2.1.1-2.1.4	n/a	portland type I - portland type II - portland type III - portland type V - pozzalan class C - pozzalan class F - GGBF Slag
Aggregate Type	UFGS 2.1.6	n/a	Insert Value
Admixtures	UFGS 2.1.7	n/a	air-entraining - accelerating - retarding - water reducing - pigment
Reinforcing	UFGS 2.1.8	n/a	bar - wire - fabric
Reinforcing Material	UFGS 2.1.8	n/a	billet steel - low alloy steel - galvanized steel - polypropylene

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	03 41 16	PRECAST CONCRETE SLABS (MAX. SPAN 8'- 0" O.C.) 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 15	Precast Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Component Type	UFGS 2.3	n/a	roof slab - curb unit
Slab Edge Type	UFGS 2.3	n/a	tongue and groove on sides and ends - tongue and groove on sides, square on ends
Compressive Strength	UFGS 2.3.5	MPa	20
Maximum Aggregate Size	UFGS 2.3.5	mm	9.5
Air Entrainment	UFGS 2.3.5	n/a	6 to 10 percent
Range of Slump	UFGS 2.3.5	mm	75
UFGS Section and Date	UFGS MAY 2012	03 41 33	PRECAST STRUCTURAL PRETENSIONED CONCRETE 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 15	Precast Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Design Load	UFGS 1.6.2	n/a	Insert Value
Compressive Strength	UFGS 2.1.1	MPa	34.5
Maximum Aggregate Size	UFGS 2.1.1	mm	19
Maximum Water-Cement Ratio	UFGS 2.1.1	n/a	16 liter per 42.5 kg sack of cement
Air Entrainment	UFGS 2.1.1	n/a	4 to 8 percent
Range of Slump	UFGS 2.1.1	mm	75
Aggregate Type	UFGS 2.2.1/2.2.2	n/a	Insert Value
Cement Type	UFGS 2.2.3-2.2.5	n/a	portland type I - portland type II - portland type III - portland type V - pozzolan class C - pozzolan class F - GGBF Slag
Admixtures	UFGS 2.2.6	n/a	air-entraining - none
Reinforcing	UFGS 2.3	n/a	bar - wire - fabric
Reinforcing Material	UFGS 2.3	n/a	billet steel - low alloy steel - galvanized steel - polypropylene
Prestressing Component	UFGS 2.4	n/a	strand tendons - wire tendons - steel bar tendons
UFGS Section and Date	UFGS MAY 2012	03 45 00	PRECAST ARCHITECTURAL CONCRETE 11/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 15	Precast Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX

Attribute	Source	Unit	Value
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Mix Design	UFGS 2.2	n/a	contractor-furnished - exposed to view mixture - backing mixture
Mix Design	UFGS 2.2	n/a	contractor-furnished
Aggregate	UFGS 2.3.1-2.3.3	n/a	insert reqts
Cement Type	UFGS 2.3.4-2.3.6	n/a	portland type I - portland type II - IP(MS) - IS(MS) - pozzalan class C - pozzalan class F - pozzalan class N - GGBF Slag
Admixtures	UFGS 2.3.7	n/a	air-entraining - none
Reinforcement Type	UFGS 2.3.9	n/a	bar - fabric
Prestressing Component	UFGS 2.3.10	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	03 45 33	PRECAST[PRESTRESSED] STRUCTURAL CONCRETE 04/08
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 15	Precast Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Mix Design	UFGS 2.1	n/a	contractor-furnished
Compressive Strength	UFGS 2.1	MPa	35
Cement Type	UFGS 2.2.1/2.2.2	n/a	portland type I - portland type II - portland type III - pozzalan class C - pozzalan class F - pozzalan class N - GGBF Slag - silica fume
Aggregate	UFGS 2.3.1-2.3.3	n/a	insert reqts
Admixtures	UFGS 2.3.7	n/a	air-entraining - water reducing
Reinforcement Type	UFGS 2.3.9	n/a	bar - fabric
Prestressing Component	UFGS 2.3.10	n/a	7 wire strand - single wire - steel bar
Finish	UFGS 2.3.6	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	03 47 13	TILT-UP CONCRETE 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-13 33 25	Precast Modules
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes

Attribute	Source	Unit	Value
Sustainability	COBie Guide	n/a	insert reqts
Release Agent	UFGS 2.1	n/a	Resin Type - Parrafin Type
Accessory Material	UFGS 2.2.1-2.2.5	n/a	corrosion resistant steel - galvanized steel
Pick-Up Insert Type	UFGS 2.2.1	n/a	single - double
Lifting Device Type	UFGS 2.2.5	n/a	angle - swivel
Facing Aggregate Type	UFGS 2.3	n/a	gravel - limestone - quartz - marble - glass - ceramic
Admixtures	UFGS 2.6	n/a	retarder - accelerator
Form Liner Type	UFGS 2.7	n/a	rubber matting - wood board - plywood panel - nailed-on inserts - fiberglass - plastic sheets - pattern as shown on drawings

UFGS Section and Date	UFGS MAY 2012	03 51 01	PRECAST ROOF DECKS 01/08
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 33 15	Concrete Deck Roofing
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Decking Type	UFGS 2.1	n/a	concrete - structural cement-fiber
Joint Material	UFGS 2.4	n/a	mastic - grout - mortar - lightweight concrete

UFGS Section and Date	UFGS MAY 2012	03 52 00	LIGHTWEIGHT CONCRETE ROOF INSULATION 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 33 13	Lightweight Concrete Roofing Insulation
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Cement Type	UFGS 2.1	n/a	portland type I - portland type II - portland type III
Aggregate Type	UFGS 2.2	n/a	group I
Expansion Joint Filler Material	UFGS 2.6	n/a	Class 1, semi-rigid, modified for maximum density of 96 kg per cubic meter
Insulation Type	UFGS 2.8	n/a	RCPS Type I - RCPS Type II - RCPS Type IV - RCPS Type V
Compressive Strength	UFGS 3.1.1	MPa	9
Minimum Oven Dry Density	UFGS 3.1.2	kg/m3	350
U Value	UFGS 3.1.3	watt/square foot/degrees C	0.28

UFGS Section and Date	UFGS MAY 2012	03 52 16.19	LIGHTWEIGHT INSULATING CONCRETE OVERLAY 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 15 11 11	Cementitious Concretes
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX

Attribute	Source	Unit	Value
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Cement Type	UFGS 2.1	n/a	portland type I - portland type II - portland type III
Aggregate Type	UFGS 2.2	n/a	group I
Expansion Joint Filler Material	UFGS 2.6	n/a	Class 1, semi-rigid, modified for maximum density of 96 kg per cubic meter
Insulation Type	UFGS 2.8	n/a	RCPS Type I - RCPS Type II - RCPS Type IV - RCPS Type V
Compressive Strength	UFGS 3.1.1	MPa	9
Minimum Oven Dry Density	UFGS 3.1.2	kg/m3	350
U Value	UFGS 3.1.3	watt/square foot/degrees C	0.28

UFGS Section and Date	UFGS MAY 2012	03 52 16	LIGHTWEIGHT INSULATING CONCRETE 04/08
OCCS Table 23 Properties	OCCS MAY 2012	23-13 15 11 11	Cementitious Concretes
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Compressive Strength	UFGS 1.2.1	KPa	862
Minimum Oven Dry Density	UFGS 1.2.1	kg/m3	400
U Value	UFGS 1.2.2	watt/square foot/degrees C	Insert Value
Admixtures	UFGS 2.1.1	n/a	air entraining - none
Aggregate Type	UFGS 2.1.2	n/a	group I
Cement Type	UFGS 2.1.4	n/a	portland type I - portland type III - IS
Reinforcement Type	UFGS 2.1.5	n/a	wire mesh - welded wire fabric
Insulation Type	UFGS 2.1.7	n/a	RCPS Type I - RCPS Type II - RCPS Type IV - RCPS Type V
UFGS Section and Date	UFGS MAY 2012	03 53 14.00 20	LIGHT REFLECTIVE NONFERROUS METALLIC AGGREGATE FLOOR SYSTEM 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-13 35 23 11 11	Concrete Structural Floor Decks
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number

Attribute	Source	Unit	Value
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Surface Hardener	UFQS 2.2	n/a	dry shake consisting of non-ferrous metallic aggregates, cementitious binder, plasticizer, and water-reducing admixture
Surface Evaporation Retardant	UFQS 2.3	n/a	mono molecular surface evaporation retardant film
UFGS Section and Date	UFGS MAY 2012	03 55 16	GYPSUM CONCRETE FLOOR PLANKS 04/08
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 11 13 11 11	Gypsum Floor Underlays
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Unit Type	UFQS 2.1	n/a	gypsum plank - type X gypsum panel - 3.5 Mpa gypsum concrete
Subpurlin Type	UFQS 2.2	n/a	open web truss - hot-rolled bulb - folded sheet metal tee
UFGS Section and Date	UFGS MAY 2012	03 62 16	METALLIC NON-SHRINK GROUTING 02/12
OCCS Table 23 Properties	OCCS MAY 2012	23-13 15 15 11	Concrete Grouts
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Cement Type	UFQS 2.1	n/a	portland type I
Aggregate Type	UFQS 2.2	n/a	group I
Admixtures	UFQS 2.4	n/a	oxidizable metallic aggregate - metallic aluminum powder
Grout Type	UFQS 2.5	n/a	expansive Type A - expansive Type B
UFGS Section and Date	UFGS MAY 2012	03 70 00	MASS CONCRETE 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-13 31 11	Structural Concrete
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content

Attribute	Source	Unit	Value
Air Entrainment	UFGS 2.1.3	n/a	Insert Value
Range of Slump	UFGS 2.1.4	n/a	Insert Value
Cement Type	UFGS 2.2.1	n/a	portland type I - portland type II - portland type III - portland type V - IP - IP(MS) - IP(MH) - IS - IS(MS) - IS(MH) - pozzolan class c - pozzolan class F - GGBF Slag - silica fume
Admixtures	UFGS 2.2.2	n/a	air entraining - accelerating - retarding - water-reducing - high range water reducing - expansive -
Curing Material	UFGS 2.2.3	n/a	polyethylene sheet - membrane-Forming curing compound - burlap
Aggregate	UFGS 2.2.5	n/a	insert reqts
Grout Type	UFGS 2.2.6	n/a	nonshrink, grade XX
Bonding Agent	UFGS 2.2.8	n/a	latex - epoxy
finish	UFGS 3.3	n/a	unformed - float - trowel - broom - abrasive aggregate - high velocity - class A - class A-HV - class B - class C - class D

UFGS Section and Date	UFGS MAY 2012	04 01 00.91	RESTORATION AND CLEANING OF MASONRY IN HISTORIC STRUCTURES 05/12
OCCS Table 23 Properties	OCCS MAY 2012	23-13 27 13 15	Masonry Restoration and Cleaning Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Cleaning Material	UFGS 2.1	n/a	paint remover - chemical cleaner - biocide
Repair Material	UFGS 2.2	n/a	mortar - stucco - brick - stone - terra-cotta - precast stone
Cleaning Method	UFGS 2.3.1	n/a	sandblasting - water blasting - alternative blasting method - manual

UFGS Section and Date	UFGS MAY 2012	04 01 20	REHABILITATION OF REINFORCED AND UNREINFORCED MASONRY WALLS USING FRP COMPOSITE STRUCTURAL REPOINTING 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-13 27 13 15 11	Unit Masonry Restoration Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
FRP Strengthening	UFGS 1.2	n/a	seismic - wind - blast
Elongation	UFGS 2.1	percent	Insert Value
Visual Defects	UFGS 2.1	n/a	Insert Value

Attribute	Source	Unit	Value
Tensile Strength	UFGS 2.1	kPa	Insert Value
Tensile Modulus of Elasticity	UFGS 2.1	kPa	Insert Value
Cross-sectional Area	UFGS 2.1	mm ²	Insert Value
Fiber Volume Fraction	UFGS 2.1	percent	Insert Value
Component Type	UFGS 2.2	n/a	glass - carbon - aramid - rods - rectangles - grids
Component Material	UFGS 2.2	n/a	vinyl ester - polyester - epoxy - urethane
Adhesive Type	UFGS 2.2	n/a	epoxy - urethane
UFGS Section and Date	UFGS MAY 2012	04 01 21	REHABILITATION OF REINFORCED AND UNREINFORCED MASONRY WALLS USING SURFACE APPLIED FRP COMPOSITES 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-13 27 13 15 11	Unit Masonry Restoration Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
FRP Strengthening	UFGS 1.2	n/a	seismic - wind - blast
Elongation	UFGS 2.2	percent	Insert Value
Tensile Strength	UFGS 2.2	kPa	Machine Direction: XX, Cross Direction XX
Breaking Load	UFGS 2.2	kg/mm	Insert Value
Modulus of Elasticity	UFGS 2.2	kPa	Insert Value
Ply Thickness	UFGS 2.2	mm	Insert Value
Visual Defects	UFGS 2.2	n/a	Insert Value
System Type	UFGS 2.3.1	n/a	wet lay-up - prepreg - precured
Fiber Type	UFGS 2.3.1	n/a	glass - carbon - aramid
Adhesive Type	UFGS 2.3.1	n/a	vinyl ester - polyester - epoxy - urethane
Filler Type	UFGS 2.3.2	n/a	epoxy - polyester
Fire Rating	UFGS 2.6	n/a	class 1
UFGS Section and Date	UFGS MAY 2012	04 20 00	MASONRY 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 21 00	Blocks and Bricks
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Component Category	UFGS 2.2-2.8	n/a	brick - CMU - compressed earth block - precast concrete - stone

Attribute	Source	Unit	Value
Component Type	UFGS 2.2-2.8	n/a	solid - hollow - closure - utility - FBS - FBA - FBX - HBS - HBX - HBA - HBB
Component Material	UFGS 2.2-2.8	n/a	clay - shale - sand-lime - refractory clay - adobe - concrete
Component Grade	UFGS 2.2	n/a	Insert Value
Component Finish	UFGS 2.2-2.8	n/a	natural - fluted - vertical scored - split ribbed
Mortar Type	UFGS 2.9/2.10	n/a	M - S - N - O - RN - RS - RM
Anchor Type	UFGS 2.13	n/a	wire mesh tie - wall tie - dovetail - adjustable - bar positioner
Joint Reinforcement	UFGS 2.14	n/a	standard - heavy duty - extra heavy duty
Flashing Type	UFGS 2.19	n/a	Coated-Copper - Copper - Stainless Steel - Reinforced Membrane
UFGS Section and Date	UFGS MAY 2012	04 21 13.13	NONBEARING MASONRY VENEER/STEEL STUD WALLS 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-13 37 13	Exterior Wall Cladding
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Component Type	UFGS 2.1	n/a	FBS brick - FBX brick - FBH brick - CMU - prefaced CMU
Component Size	UFGS 2.1.1	n/a	modular - insert value
Mortar Type	UFGS 2.2	n/a	S
Joint Reinforcement	UFGS 2.3	n/a	standard - heavy duty - extra heavy duty
Framing Grade	UFGS 2.4	n/a	33
Insulation Type	UFGS 2.5	n/a	blanket, type I, blanket, type II, blanket, type III, rigid polystyrene
Sheathing Type	UFGS 2.6/2.7	n/a	gypsum - plywood
Anchor Type	UFGS 2.9	n/a	pintle-eye - dovetail
UFGS Section and Date	UFGS MAY 2012	04 21 26	GLAZED STRUCTURAL CLAY TILE AND PREFACED CONCRETE MASONRY UNITS 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 21 19 23	Structural Clay Tiles
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Component Type	UFGS 2.2/2.3	n/a	facing tile, type I grade SS - facing tile, type I grade S - prefaced CMU, grade S - prefaced CMU, grade N
Face Dimensions	UFGS 2.2/2.3	mm x mm	Insert Value
Mortar Type	UFGS 2.4.1	n/a	S - N

Attribute	Source	Unit	Value
Grout Type	UFGS 2.4.2	n/a	type I, fine - type I, coarse - type IP, fine - type IP, coarse
Anchor Type	UFGS 2.5	n/a	rigid anchors - wire ties - horizontal truss
UFGS Section and Date	UFGS MAY 2012	04 23 00	GLASS MASONRY UNITS 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 21 19 19	Ceramic Glazed Clay Masonry Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - recycled content
Component Type	UFGS 2.1	n/a	DECORA - VUE - ARGUS - VISTABRIK
Face Dimensions	UFGS 2.1	mm x mm	197 x 197 - 194 x 194
Component Thickness	UFGS 2.1	mm	98 - 76
Fire Rated	UFGS 2.1	n/a	yes - no
Mortar Type	UFGS 2.2	n/a	white cement, type S
Joint Reinforcement	UFGS 2.3.1	n/a	horizontal truss
Anchor Type	UFGS 2.3.2	n/a	strip - wire-type
Packing	UFGS 2.3.4	n/a	polyethylene foam - neoprene
UFGS Section and Date	UFGS MAY 2012	05 05 23.13 10	ULTRASONIC INSPECTION OF WELDMENTS 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-13 23 13	Welded Joint Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
UFGS Section and Date	UFGS MAY 2012	05 05 23	WELDING, STRUCTURAL 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-13 21 19 19	Ceramic Glazed Clay Masonry Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	low toxicity
Welding Method	UFGS 3.1	n/a	shielded metal-arc
Electrode Type	UFGS 3.1	n/a	E6010 - E6011 - E6013 - E7018 - E7024 - E8018 - E11018

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	05 12 00	STRUCTURAL STEEL 11/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 35 11	Structural Frames
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Steel Type	UFGS 2.1	n/a	structural - high-strength, low-alloy structural - quenched and tempered alloy - weathering structural - carbon-manganese -
Steel Grade	UFGS 2.1	n/a	insert value
Steel Shape	UFGS 2.1	n/a	insert value
Hardware Type	UFGS 2.2	n/a	insert value
Primer	UFGS 2.4	n/a	alkyd - epoxy-polyamide
Coating	UFGS 2.7.3	n/a	fireproofing - epoxy
UFGS Section and Date	UFGS MAY 2012	05 14 00.13	WELDING STRUCTURAL ALUMINUM FRAMING 11/10
OCCS Table 23 Properties	OCCS MAY 2012	23-13 23 13	Welded Joint Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	low toxicity
Construction Type	UFGS 3.4	n/a	class A - class B - class C - class D
AWS Requirement	UFGS 3.4	n/a	section 2 - section 8 - section 9 - section 10 - section 11
Non-Destructive Examination Method	UFGS 3.5	n/a	VT - PT - RT - UT
Examination Level	UFGS 3.5	n/a	level I - level II - level III
UFGS Section and Date	UFGS MAY 2012	05 21 13	DEEP LONGSPAN STEEL JOIST FRAMING 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 35 19	Rafters, Beams, and Joists
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Steel Conformance	UFGS 2.1	n/a	SJI 279167

Attribute	Source	Unit	Value
Finish	UFGS 2.3	n/a	rust inhibiting primer
UFGS Section and Date	UFGS MAY 2012	05 21 16	LONGSPAN STEEL JOIST FRAMING 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 35 19	Rafters, Beams, and Joists
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Steel Conformance	UFGS 2.1	n/a	SJI 279167
Finish	UFGS 2.3	n/a	rust inhibiting primer
UFGS Section and Date	UFGS MAY 2012	05 21 19	OPEN WEB STEEL JOIST FRAMING 07/07
OCCS Table 23 Properties	OCCS MAY 2012	23-13 35 19	Rafters, Beams, and Joists
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Steel Conformance	UFGS 2.1	n/a	SJI load tables
Finish	UFGS 2.3	n/a	type I red oxide paint
UFGS Section and Date	UFGS MAY 2012	05 21 23	STEEL JOIST GIRDER FRAMING 07/07
OCCS Table 23 Properties	OCCS MAY 2012	23-13 35 11	Structural Frames
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Steel Conformance	UFGS 2.1	n/a	SJI load tables
Finish	UFGS 2.3	n/a	type I red oxide paint
UFGS Section and Date	UFGS MAY 2012	05 30 00	STEEL DECKS 11/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 35 23 13 13	Metal Structural Roof Decks
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX

Attribute	Source	Unit	Value
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Fire Classification	UFGS 1.3.4	n/a	UL Classified - FM Class 1
Wind Uplift Resistance	UFGS 1.3.4	kPa	3 - 5
Deck Material	UFGS 2.1.1	n/a	flat rolled carbon steel
Material Thickness	UFGS 2.1.1	mm	0.75 - 0.92
Deck Coating	UFGS 2.1.2	n/a	Z275 - AZ165
Sound Absorbing Material	UFGS 2.1.8	n/a	glass fiber roll - glass fiber rigid strip
Deck Type	UFGS 2.3.1-2.3.6	n/a	Cellular Metal Floor Deck - Roof Deck - Form Deck - Composite Deck - Acoustical Steel Deck
Attachment Method	UFGS 3.2.1	n/a	welding - fastening
UFGS Section and Date	UFGS MAY 2012	05 40 00	COLD-FORMED METAL FRAMING 05/10
OCCS Table 23 Properties	OCCS MAY 2012	23-13 35 11	Structural Frames
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Maximum Deflection	UFGS 1.5	n/a	L/240 - L/360 - L/600
Component Type	UFGS 2.1	n/a	stud - joist - track - bracing - bridging - accessory
Steel Grade	UFGS 2.1	n/a	ST33H - ST230H - ST50H - ST340H
Coating Type	UFGS 2.1	n/a	G60 (Z180) - A60 (ZF180) - AZ50 (AZ150) - GF30 (ZGF90) - G90 (Z275)
Material Thickness	UFGS 2.1	mm	0.84 - 1.09 - 1.37 - 1.72 - 2.45
Flange Width	UFGS 2.1	mm	32 - 35 - 41 - 51 - 63
Attachment Method	UFGS 3.1.1	n/a	welding - fastening
UFGS Section and Date	UFGS MAY 2012	05 50 13	MISCELLANEOUS METAL FABRICATIONS 05/10
OCCS Table 23 Properties	OCCS MAY 2012	23-13 35 00	Framing Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Component Material	UFGS 2.1	n/a	Structural Carbon Steel - Aluminum

Attribute	Source	Unit	Value
Component Finish	UFGS 2.2	n/a	Galvanized - shop painted - anodic coating - organic coating
Component Type	UFGS 2.3-2.27	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	05 50 14	STRUCTURAL METAL FABRICATIONS 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-13 35 00	Framing Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Component Material	UFGS 2.2.1	n/a	Structural Carbon Steel - Structural Aluminum
Attachment Method	UFGS 2.2.2	n/a	welding - fastening - riveting
Component Finish	UFGS 2.2	n/a	zinc - cadmium - chromium
UFGS Section and Date	UFGS MAY 2012	05 50 15	CIVIL WORKS FABRICATIONS 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-13 35 00	Framing Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Component Type	UFGS 2.1	n/a	insert value
Component Grade	UFGS 2.1	n/a	insert value
Component Class	UFGS 2.1	n/a	insert value
Component Style	UFGS 2.1	n/a	insert value
Component Material	UFGS 2.1	n/a	Structural Carbon Steel - Structural Aluminum
Component Finish	UFGS 2.2.11	n/a	insert value
UFGS Section and Date	UFGS MAY 2012	05 51 00	METAL STAIRS 02/12
OCCS Table 23 Properties	OCCS MAY 2012	23-17 23 17	Stairs
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Steel Type	UFGS 2.2-2.12	n/a	insert value

Attribute	Source	Unit	Value
Steel Shape	UFGS 2.2-2.12	n/a	insert value
Concrete Insert Type	UFGS 2.13	n/a	threaded - wedge
Protective Coating	UFGS 2.17	n/a	red oxide primer - galvanized
Stair Framing Type	UFGS 2.18.2	n/a	insert value
Riser Type	UFGS 2.18.3	n/a	steel
Tread Type	UFGS 2.18.9	n/a	steel - metal-pan concrete-filled - grating - nonskid metallic - precast concrete
Live Load	UFGS 2.18.9.1	kg/m2	500
Concentrated Load	UFGS 2.18.9.1	kN	1.3 - 2

UFGS Section and Date	UFGS MAY 2012	05 51 33	METAL LADDERS 05/10
OCCS Table 23 Properties	OCCS MAY 2012	23-17 23 15	Ladders
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Ladder Finish	UFGS 2.2	n/a	galvanized - anodic coating - organic coating
Ladder Cage	UFGS 2.3.1	n/a	yes - no
Live Load	UFGS 2.3.2	N	1300

UFGS Section and Date	UFGS MAY 2012	05 52 00	METAL RAILINGS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-17 25 11	Guardrails
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Rail Construction	UFGS 2.13/2.14	n/a	steel - aluminum
Concentrated Load	UFGS 2.13/2.14	N	490
Horizontal Load	UFGS 2.13/2.14	N/m	290
Joint Type	UFGS 2.13/2.14	n/a	flush type rail fittings - mitered and welded - bent - slip-on fittings
Rail Diameter	UFGS 2.13/2.14	mm	40 - 50
Rail Finish	UFGS 2.13/2.14	n/a	galvanized - shop painted - mill - anodized

UFGS Section and Date	UFGS MAY 2012	05 59 10	ROLLING COVER FOR AVIATION REFUELING VAULTS 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-19 29 13	Covers and Shelters
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX

Attribute	Source	Unit	Value
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Wheel Assembly	UFGS 2.1.7	n/a	150 mm Dia. x 50 mm wide - 80 mm Dia. x 40 mm wide
Cover Construction	UFGS 2.2.3/2.2.4	n/a	steel - aluminum
Connection Type	UFGS 2.2.5/2.4	n/a	bolted - welded
Finish	UFGS 2.5	n/a	galvanized - insert value

UFGS Section and Date	UFGS MAY 2012	05 59 13	FABRICATION OF HYDRAULIC STEEL STRUCTURES 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-19 29 11	Pre Engineered Structures
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Connection Type	UFGS 2.1.4/2.1.5	n/a	bolted - welded
Non-Destructive Examination Method	UFGS 3.5	n/a	MT - PT - RT - UT
Examination Level	UFGS 3.5	n/a	level I - level II - level III

UFGS Section and Date	UFGS MAY 2012	05 72 00	DECORATIVE METAL SPECIALTIES 02/12
OCCS Table 23 Properties	OCCS MAY 2012	23-15 00 00	Interior and Finish Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Concrete Insert Type	UFGS 2.1.1	n/a	slotted - wedge - non-removable
Metal Type	UFGS 2.2	n/a	Aluminum-Alloy 3003 - Aluminum-Alloy 5005 - Aluminum-Alloy 5140 - Aluminum-Alloy 6061
Component Type	UFGS 2.3	n/a	joint cover, plain - joint cover, recessed - joint cover, non-slip
Component Finish	UFGS 2.4.4	n/a	insert value
	UFGS	n/a	

UFGS Section and Date	UFGS MAY 2012	06 10 00	ROUGH CARPENTRY 02/12
OCCS Table 23 Properties	OCCS MAY 2012	23-13 35 00	Framing Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX

Attribute	Source	Unit	Value
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.11	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf - biobased
Material Classification	UFGS 2.1	n/a	virgin - salvaged - recovered - engineered wood - plastic - gypsum
Species/Type	UFGS 2.2	n/a	insert value
Unit Composition	UFGS 2.2	n/a	solid - treated - glue-laminated - laminated-strand - laminated-veneer
Appearance Grade	UFGS 2.2	n/a	industrial - architectural - premium
Component Usage	UFGS 2.2-2.5	n/a	stud - joist - rafter - girder - bracing - plate - sheathing
Unit Stress Fb	UFGS 2.2.1	kPa	7200 - 8300
Unit Stress Ft	UFGS 2.2.1	kPa	4800
Unit Stress Fc	UFGS 2.2.1	kPa	5400
Unit Stress Fv	UFGS 2.2.1	kPa	8300
Unit Stress E	UFGS 2.2.1	Mpa	8300
Span Rating	UFGS 2.3	n/a	32/16 - 24/16 - 48/24
Grade	UFGS 2.3	n/a	structural I - structural II - C-D - C-C
UFGS Section and Date	UFGS MAY 2012	06 13 33	PIER TIMBERWORK 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-13 35 19 15 15	Heavy Timber Construction
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - certified wood
Species/Type	UFGS 2.1.1	n/a	southern pine - fir-larch
Unit Stress Rating	UFGS 2.1.1	Mpa	insert value
Preservative Treatment	UFGS 2.1.1.2	n/a	creosote - water-borne - dual-treatment
Hardware Type	UFGS 2.1.2	n/a	cast-iron - galvanized steel
Wire Rope and Fitting Type	UFGS 2.1.2	n/a	type I, class 2 - type III, class 2 - type III, class 3
UFGS Section and Date	UFGS MAY 2012	06 18 00	GLUED-LAMINATED CONSTRUCTION 05/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 35 00	Framing Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary

Attribute	Source	Unit	Value
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert value
Species/Type	UFGS 2.1.1.1	n/a	insert value
Grade	UFGS 2.1.1.1	n/a	structural I - structural II - C-D - C-C
Appearance Grade	UFGS 2.1.1.1	n/a	industrial - architectural - premium
Flame Spread	UFGS 2.1.2	n/a	Less than 25
Finish	UFGS 2.1.4	n/a	insert value
Hardware Type	UFGS 2.1.5	n/a	none - structural steel - hot rolled steel sheet - type 304 stainless steel - type 316 stainless steel
UFGS Section and Date	UFGS MAY 2012	06 20 00	FINISH CARPENTRY 02/12
OCCS Table 23 Properties	OCCS MAY 2012	23-15 15 31	Wall Specialties and Trim
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf - biobased
Species/Type	UFGS 2.1.2	n/a	insert value
Grade	UFGS 2.1.2	n/a	insert value
Component Category	UFGS 2.1.3-2.5	n/a	shelving - soffit - countertop - stair component - shoe - seat - bumper - siding - cabinet -insert value
Component Type	UFGS 2.1.3-2.5	n/a	insert value
Moisture Content	UFGS 2.6	percent	6 - 12 - 15 - 19
Preservative Treatment	UFGS 2.7.3	n/a	2 percent copper napthenate - 3 percent zinc napthenate - 1.8 percent copper-8-quinolinolate - fire retardant
AWI Quality Grade	UFGS 2.10.5.1	n/a	premium - custom - economy
UFGS Section and Date	UFGS MAY 2012	06 41 16.00	LAMINATE CLAD ARCHITECTURAL CASEWORK 10 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-21 19 11	Modular General Casework
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.4.3	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf - biobased
Construction	UFGS 2.1	n/a	plywood - particleboard - MDF - solid polymer - HPDL - Melamine
Grade	UFGS 2.3	n/a	HGS - VGS - HGP - VGP - HGF - VGF - CLS - BK

Attribute	Source	Unit	Value
Hardware Type	UFGS 2.7	n/a	hinge - pull - glide
Hardware Finish	UFGS 2.7	n/a	BHMA no. XX
Glass Type	UFGS 2.11.1	n/a	insert value
Frame Style	UFGS 2.12	n/a	full overlay - reveal overlay - face framed - insert value
Door Style	UFGS 2.12	n/a	insert value
Joinery Method	UFGS 2.12	n/a	screw - dowel - dado - spline - biscuit

UFGS Section and Date	UFGS MAY 2012	06 61 16	SOLID POLYMER (SOLID SURFACING) FABRICATIONS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-21 19 11	Modular General Casework
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.4.3	n/a	regional - low voc - low toxicity - recycled content - biobased
Material	UFGS 2.1	n/a	Acrylic Polymer - Acrylic-modified Polymer
Flame Spread	UFGS 2.1	n/a	25
Smoke Developed	UFGS 2.1	n/a	30 - 100
Surface Pattern	UFGS 2.1.3	n/a	insert value
Component Attachment	UFGS 2.3.3	n/a	permanently attached - caulked - none

UFGS Section and Date	UFGS MAY 2012	06 71 33	FIBERGLASS REINFORCED PLASTIC (FRP) LADDERS 05/12
OCCS Table 23 Properties	OCCS MAY 2012	23-17 23 15	Ladders
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Tensile Strength	UFGS 2.1.2	MPa	207
Tensile Modulus	UFGS 2.1.2	MPa	17.2
Flexural Strength	UFGS 2.1.2	MPa	20.6
Flexural Modulus	UFGS 2.1.2	MPa	12.4
Flexural Modulus-Full Section	UFGS 2.1.2	MPa	1.93
Short Beam Shear	UFGS 2.1.2	MPa	31
Shear Modulus-Transverse	UFGS 2.1.2	MPa	31
Coefficient of Thermal Expansion	UFGS 2.1.2	cm/cm/m	2.032
Flame Spread	UFGS 2.1.2	n/a	25 or less
Cage	UFGS 2.3	n/a	yes - no

UFGS Section and Date	UFGS MAY 2012	06 73 01	FIBERGLASS REINFORCED PLASTIC (FRP) GRATING 02/12
-----------------------	---------------	----------	---

Attribute	Source	Unit	Value
OCCS Table 23 Properties	OCCS MAY 2012	23-15 00 00	Interior and Finish Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Tensile Strength	UFGS 2.1	MPa	206
Flexural Strength	UFGS 2.1	MPa	206
Flexural Modulus	UFGS 2.1	MPa	12.4
Shear Strength	UFGS 2.1	MPa	31
Coefficient of Thermal Expansion	UFGS 2.1	cm/cm/m	8
Flame Spread	UFGS 2.1.2	n/a	25 or less
UFGS Section and Date	UFGS MAY 2012	06 82 14	FIBERGLASS REINFORCED PLASTIC (FRP) PIPE AND TUBE RAILINGS 05/12
OCCS Table 23 Properties	OCCS MAY 2012	23-17 25 11	Guardrails
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Uniform Load	UFGS 1.3.1	Kgf/m	6.91
Concentrated Load	UFGS 1.3.1	Kgf	90.72
Horizontal Load	UFGS 1.3.1	kPa	1.2
Tensile Strength	UFGS 2.2	MPa	207
Tensile Modulus	UFGS 2.2	MPa	17.2
Flexural Strength	UFGS 2.2	MPa	20.6
Flexural Modulus	UFGS 2.2	MPa	12.4
Flexural Modulus-Full Section	UFGS 2.2	MPa	1.93
Short Beam Shear	UFGS 2.2	MPa	31
Shear Modulus-Transverse	UFGS 2.2	MPa	31
Coefficient of Thermal Expansion	UFGS 2.2	cm/cm/m	2.032
Flame Spread	UFGS 2.2	n/a	25 or less
Attachment Method	UFGS 2.3.2	n/a	cast-in-place - epoxy - mechanical
UFGS Section and Date	UFGS MAY 2012	07 11 13	BITUMINOUS DAMPROOFING 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 25 15 13 11	Bituminous Damproofing Coatings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX

Attribute	Source	Unit	Value
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Asphalt Type	UFGS 2.1	n/a	Type I - Type II
Coal-Tar Pitch Type	UFGS 2.4	n/a	Type II - Type III
Fibrous Asphalt Type	UFGS 2.5	n/a	Type I - Type II
Asphalt Emulsion Type	UFGS 2.6	n/a	Fibrated - Non-Fibrated
Application Method	UFGS 3.3	n/a	Cold - Hot

UFGS Section and Date	UFGS MAY 2012	07 12 00	BUILT-UP BITUMINOUS WATERPROOFING 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-13 25 17 11	Built Up Bituminous Waterproofing
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Bitumen Type	UFGS 2.1	n/a	Type I - Type II - Type III
Bituminous Plastic Cement Type	UFGS 2.2	n/a	Type I - Type II
Membrane Fabric	UFGS 2.3	n/a	Cotton - Woven Burlap
UFGS Section and Date	UFGS MAY 2012	07 13 53	ELASTOMERIC SHEET WATERPROOFING 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-13 25 17 13 13	Elastomeric Sheet Waterproofing
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Butyl Rubber Sheeting Thickness	UFGS 2.2	mils (mm)	Minimum 60 (1.5)
Thermoplastic PVC Membrane Thickness	UFGS 2.3	mils (mm)	Minimum 60 (1.5)
Composite Self-Adhering Sheeting	UFGS 2.4	mils (mm)	Minimum 60 (1.5)
Membrane Protection	UFGS 2.5	n/a	Protection Board - Polymeric Grid
UFGS Section and Date	UFGS MAY 2012	07 14 00	FLUID-APPLIED WATERPROOFING 02/12
OCCS Table 23 Properties	OCCS MAY 2012	23-13 25 17 15	Fluid Applied Waterproofing

Attribute	Source	Unit	Value
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Fluid-Applied Membrane Type	UFGS 2.1	n/a	Insert Value
Membrane Thickness (Wet)	UFGS 3.3	mils (mm)	Minimum 60 (1.5)

UFGS Section and Date	UFGS MAY 2012	07 16 19	METALLIC OXIDE WATERPROOFING 01/07
-----------------------	---------------	----------	------------------------------------

OCCS Table 23 Properties	OCCS MAY 2012	23-13 25 17 19 15	Metal Oxide Waterproofing
--------------------------	---------------	----------------------	---------------------------

Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity

UFGS Section and Date	UFGS MAY 2012	07 17 00	BENTONITE WATERPROOFING 04/06
-----------------------	---------------	----------	-------------------------------

OCCS Table 23 Properties	OCCS MAY 2012	23-13 25 17 21	Bentonite Waterproofing
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Metallic Waterproofing Compound	UFGS 2.4	n/a	Pulverized Cast Iron

UFGS Section and Date	UFGS MAY 2012	07 19 00	WATER REPELLENTS 05/11
-----------------------	---------------	----------	------------------------

OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 23 17	Water Repellents
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	07 21 13	BOARD AND BLOCK INSULATION 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 25 19 11	Slab and Board Thermal Insulation
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3	n/a	reduced emissions - regional - low voc - low toxicity - recycled content - nauf - biobased
Free Swell Rating	UFGS 2.1.2.1	cc	Minimum 16
UFGS Section and Date	UFGS MAY 2012	07 21 16	MINERAL FIBER BLANKET INSULATION 11/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 25 19 13 13	Rock Wool Blanket Thermal Insulation
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3	n/a	reduced emissions - regional - low voc - low toxicity - recycled content - nauf - biobased
Water Repellent	UFGS 2.2	n/a	Silane - Siloxane - Acrylic
Percent Solids	UFGS 2.2	Percentage	Insert Value
Water Absorption	UFGS 2.3	Percentage per 48 hours	Insert Value
Moisture Vapor Transmission	UFGS 2.3	Perms	Insert Value
UFGS Section and Date	UFGS MAY 2012	07 21 23	LOOSE FILL THERMAL INSULATION 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 25 19 17	Loose Fill Thermal Insulation
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3	n/a	reduced emissions - regional - low voc - low toxicity - recycled content - nauf - biobased
Insulation Type	UFGS 2.1	n/a	Cellular Glass - EPS - Mineral Fiber - Unfaced Polyisocyanurate - Faced Polyisocyanurate
Thermal Resistance	UFGS 2.1.1	R Value	Insert Value
Water Vapor Permeance	UFGS 2.2	Perms	Insert Value

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	07 22 00	ROOF AND DECK INSULATION 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 25 19 11	Slab and Board Thermal Insulation
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.4.3	n/a	reduced emissions - regional - low voc - low toxicity - recycled content - nauf - biobased
Thermal Resistance	UFGS 2.1.1	R Value	Insert Value
Vapor Retarder	UFGS 2.4	g/Pa.s.m2 [Perm]	[5.72 by 10-8] [_____] g/Pa.s.m2 [1] [_____] perm
UFGS Section and Date	UFGS MAY 2012	07 24 00	EXTERIOR INSULATION AND FINISH SYSTEMS 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 33 15	Wall Exteriors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	reduced emissions - regional - low voc - low toxicity - recycled content - nauf - biobased
System Description	UFGS 1.2	n/a	Class PB - Class PM
Sheathing Board	UFGS 2.1	n/a	Fiber Reinforced Cement - Glass Mat Gypsum
Insulation Thermal Resistance	UFGS 2.6	R Value	Insert Value
UFGS Section and Date	UFGS MAY 2012	07 27 00.45 10	BUILDING AIR BARRIER SYSTEM 05/12
OCCS Table 23 Properties	OCCS MAY 2012	23-13 25 25	Air Barriers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Building Air Tightness	UFGS 3.3	n/a	Minimum of 12 positive and 12 negative
UFGS Section and Date	UFGS MAY 2012	07 31 13	ASPHALT SHINGLES 11/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 15 11	Asphalt Roof Shingles
Name	COBie Guide	n/a	Type XX Space#-01

Attribute	Source	Unit	Value
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - recycled content - high albedo
Shingle Type	UFGS 2.1	n/a	Strip - Architectural
Felt Underlayment	UFGS 2.1.4	n/a	Type I - Type II

UFGS Section and Date	UFGS MAY 2012	07 31 26	SLATE ROOFING 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 19 11	Roof Slates
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc
Slate Type	UFGS 2.1	n/a	Standard Thickness - Graduated
Underlayment	UFGS 2.1.2	n/a	Asphalt Saturated Felt - Self-Adhering Membrane

UFGS Section and Date	UFGS MAY 2012	07 32 13	ROOF TILES 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 17	Roof Tiles
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - recycled content - high albedo
Tile Type	UFGS 2.1	n/a	Clay - Concrete
Underlayment	UFGS 2.2	n/a	Asphalt Saturated Felt - Self-Adhering Membrane

UFGS Section and Date	UFGS MAY 2012	07 32 14	CLAY TILE ROOFING REPLACEMENT OR REPAIR 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 17 11	Clay Roof Tiles
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes

Attribute	Source	Unit	Value
Sustainability	COBie Guide	n/a	insert reqts
Tile Type	UFGS 2.1	n/a	Clay - Concrete
Underlayment	UFGS 2.2	n/a	Asphalt Saturated Felt - Self-Adhering Membrane
UFGS Section and Date	UFGS MAY 2012	07 41 13	METAL ROOF PANELS 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 27 11 11	Metal Roof Panels
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - high albedo
Roof Panel Type	UFGS 2.1	n/a	Aluminum Sheet - Steel Sheet
Roof Panel Yield	UFGS 2.1	ksi	30 - 40 - 50 - 80
Roof Panel Profile	UFGS 2.1	n/a	Ribbed - V-Beam - Corrugated - Standing Seam
Finish	UFGS 2.2	n/a	PVDF2 - SMP - PVC
UFGS Section and Date	UFGS MAY 2012	07 41 63	FABRICATED ROOF PANEL ASSEMBLIES 05/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 27	Roof Cladding
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - high albedo
Roof Panel Type	UFGS 2.1	n/a	Aluminum Sheet - Steel Sheet
Roof Panel Yield	UFGS 2.1	ksi	30 - 40 - 50 - 80
Roof Panel Profile	UFGS 2.1	n/a	Ribbed - V-Beam - Corrugated - Standing Seam
Finish	UFGS 2.1	n/a	PVDF2
UFGS Section and Date	UFGS MAY 2012	07 42 13	METAL WALL PANELS 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23.13.37.13	#N/A
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - high albedo
Wall Panel Type	UFGS 2.1	n/a	Aluminum Sheet - Steel Sheet

Attribute	Source	Unit	Value
Wall Panel Yield	UFGS 2.1	ksi	30 - 40 - 50 - 80
Wall Panel Profile	UFGS 2.1	n/a	Ribbed - V-Beam - Corrugated - Standing Seam
Finish	UFGS 2.1	n/a	PVDF2
UFGS Section and Date	UFGS MAY 2012	07 42 63	FABRICATED WALL PANEL ASSEMBLIES 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23.13.37.13	#N/A
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.5.10	n/a	regional - low voc - low toxicity - recycled content - high albedo
Wall Panel Type	UFGS 2.1	n/a	Aluminum Sheet - Steel Sheet
Wall Panel Yield	UFGS 2.1	ksi	30 - 40 - 50 - 80
Wall Panel Profile	UFGS 2.1	n/a	Ribbed - V-Beam - Corrugated - Standing Seam
Wall Panel Core	UFGS 2.1	n/a	Hollow - Insulated
Finish	UFGS 2.1	n/a	PVDF2
UFGS Section and Date	UFGS MAY 2012	07 51 13	BUILT-UP ASPHALT ROOFING 05/12
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 31 13 11	Asphalt Multi Layer Roof Membranes
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.12	n/a	regional - low voc - low toxicity - high albedo
Base Sheet Type	UFGS 2.2	n/a	Fiberlgass Venting - Fiberglass, Perforated - Fiberglass, non-perforated
Ply Sheet Type	UFGS 2.2	n/a	Type IV - Type VI
Base Flashing Type	UFGS 2.3	n/a	Modified Bituminous
Asphalt Type	UFGS 2.4	n/a	Type II - Type III - Type IV
Surfacing	UFGS 2.5	n/a	Mineral Surfaced Cap Sheet - Aggregate
UFGS Section and Date	UFGS MAY 2012	07 52 00	MODIFIED BITUMINOUS MEMBRANE ROOFING 05/12
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 31 13 13	Built Up Bituminous Multi Layer Roof Membranes
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name

Attribute	Source	Unit	Value
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.13	n/a	regional - low voc - low toxicity - high albedo
Base Sheet Type	UFGS 2.1	n/a	Fiberglass Venting - Fiberglass, perforated - Fiberglass, non-perforated - SBS - APP
Interply Sheet Type	UFGS 2.1	n/a	Type I, Grade S - Type II, Grade S
Cap Sheet Type	UFGS 2.1	n/a	APP, Type II Grade S - APP, Type II Grade G - SBS, Type II Grade S - SBS, Type II Grade G
Asphalt Type	UFGS 2.4	n/a	Type II - Type III - Type IV
Application Method	UFGS 3.3.3	n/a	Hot Asphalt - Cold-Applied - Torch Welded
UFGS Section and Date	UFGS MAY 2012	07 53 23	ETHYLENE-PROPYLENE-DIENE-MONOMER ROOFING 05/12
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 31 11 21	Ethylene Propylene Diene Monomer (EPDM) Single Layer Roof Membranes
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.12	n/a	regional - low voc - low toxicity - high albedo
Membrane Type	UFGS 2.1	n/a	Reinforced EPDM, 90 mils - Non-Reinforced EPDM, 90 mils
Application Method	UFGS 3.2	n/a	fully adhered - loose-laid ballasted - mechanically fastened - combined fully adhered - mechanically fastened
Seaming Method	UFGS 3.2.4	n/a	Taped
UFGS Section and Date	UFGS MAY 2012	07 54 19	POLYVINYL-CHLORIDE (PVC) ROOFING 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 31 11 27	Polyvinyl chloride (PVC) Single Layer Roof Membranes
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - high albedo
Membrane Type	UFGS 2.2	n/a	minimum 0.045 inch ENERGYSTAR labeled Reinforced PVC
Application Method	UFGS 3.2	n/a	adhered - mechanically fastened - combination adhered/protected membrane - loose-laid, paver ballasted - IRMA - garden-style

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	07 55 00	PROTECTED MEMBRANE ROOFING (PMR) 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 31	Roof Membranes
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	reduced emissions - regional - low voc - low toxicity - high albedo
Membrane Type	UFGS 2.2	n/a	Built-Up - Modified Bituminous - EPDM - PVC
Thermal Resistance	UFGS 2.3	R Value	Insert Value
Ballast	UFGS 2.5	n/a	Pavers - Aggregate
UFGS Section and Date	UFGS MAY 2012	07 57 13	SPRAYED POLYURETHANE FOAM (SPF) ROOFING 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 31 17	Coated Foam Roofing
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.4.6	n/a	reduced emissions - regional - low voc - low toxicity - high albedo
Coating Type	UFGS 2.2	n/a	Type A - Type B - Type CB - Type CF
Surfacing	UFGS 2.4	n/a	Ceramic Granules - None
UFGS Section and Date	UFGS MAY 2012	07 60 00	FLASHING AND SHEET METAL 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-13 41 13	Roof Flashings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - high albedo
Sheet Material	UFGS 2.1	n/a	Copper - Lead Coated Copper - Lead - Steel - Zinc - Aluminum - Alclad
UFGS Section and Date	UFGS MAY 2012	07 61 01	COPPER ROOF SYSTEM 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 27 11 11	Metal Roof Panels
Name	COBie Guide	n/a	Type XX Space#-01

Attribute	Source	Unit	Value
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - high albedo
Roof Panel Material	UFGS 2.1	n/a	Clad Rolled Copper, minimum 4.9 kg per square meter
Vapor Retarder	UFGS 2.5	n/a	Asphalt Saturated Felt - Polyethylene Sheeting

UFGS Section and Date	UFGS MAY 2012	07 61 14.00 20	STEEL STANDING SEAM ROOFING 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 27 11	Metal Roof Panels
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - high albedo
Corrugation Height	UFGS 2.1	mm	45 - 57 - 76
Texture	UFGS 2.1.2	n/a	Stucco embossed - Smooth - Smooth with raised intermediate ribs
Insulation Thermal Resistance	UFGS 2.5	R Value	Insert Value

UFGS Section and Date	UFGS MAY 2012	07 61 15.00 20	ALUMINUM STANDING SEAM ROOFING 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 39 27 11	Metal Roof Panels
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - high albedo
Panel Material	UFGS 2.1	n/a	3004 aluminum
Texture	UFGS 2.1.2	n/a	Stucco embossed - Smooth - Smooth with raised intermediate ribs

UFGS Section and Date	UFGS MAY 2012	07 62 10	COPPER SHEET METAL FLASHING 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 41 13	Roof Flashings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name

Attribute	Source	Unit	Value
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - high albedo
Flashing Material	UFGS 2.1	n/a	Copper

UFGS Section and Date	UFGS MAY 2012	07 72 00	ROOF VENTILATORS, GRAVITY-TYPE 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-13 41 17	Roof Vents
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Ventilator Type	UFGS 2.2 - UFGS 2.4	n/a	Ridge - Stationary - Turbine

UFGS Section and Date	UFGS MAY 2012	07 81 00	SPRAY-APPLIED FIREPROOFING 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 25 11 15	Fireproofing Coatings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Dry Density	UFGS 2.1	kg per cubic meter	240 - 320 - 640
Cohesion/Adhesion strength	UFGS 2.1	kPa	9.57 - 20.83 - 350

UFGS Section and Date	UFGS MAY 2012	07 84 00	FIRESTOPPING 05/10
OCCS Table 23 Properties	OCCS MAY 2012	23-13 25 13	Firestopping
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Flame Spread	UFGS 2.1	n/a	25 or less
Smoke Developed	UFGS 2.1	n/a	50 or less
Fire Resistance Rating	UFGS 2.1	n/a	At least equal to fire-rating of fire wall or floor to be protected

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	07 92 00	JOINT SEALANTS 01/07
OCCS Table 23 Properties	OCCS MAY 2012	23-13 23 19 11	Joint Fillers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Sealant Type	UFGS 2.1	n/a	Latex - Elastomeric
Backstop	UFGS 2.4	n/a	Rubber - PVC - Synthetic Rubber - Neoprene - Butyl Rubber - Silicon Rubber
UFGS Section and Date	UFGS MAY 2012	08 11 13	STEEL DOORS AND FRAMES 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 13 15	Steel Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
System Description	UFGS 1.2	n/a	interior and exterior steel doors and frames
Door Width	COBie Guide	mm (in)	762 mm (30 in) - 914 mm (36 in) - 1066 mm (42 in)
Door Height	COBie Guide	mm (in)	2032 mm (80 in) - 2133 mm (84 in) - 2438 mm (96 in)
Door Thickness	COBie Guide	mm (in)	44.5 mm (1.75 in)
Door Type, Standard	COBie Guide/UFGS 2.1	n/a	standard duty - heavy duty - extra heavy duty - maximum duty
Door Type, Custom	COBie Guide/UFGS 2.2	n/a	NAAMM-HMMA-HMM
Door Material	COBie Guide/UFGS 2.1/2.2	n/a	steel - galvanized steel - stainless steel
Door Finish	COBie Guide/UFGS 2.11	n/a	factory primed - zinc-coated factory primed - factory enamel
Glazing Type	COBie Guide/UFGS 2.13	n/a	tempered - laminated
Security Code	COBie Guide	n/a	5 min FE - 15 min FE - 60 min FE - UL 752 Level 1 BR - UL 752 Level 3 BR
Frame Type	COBie Guide/UFGS 2.7	n/a	welded - knock-down
Frame Material	COBie Guide/UFGS 2.1/2/2	n/a	steel - galvanized steel - stainless steel
Frame Finish	COBie Guide/UFGS 2.11	n/a	factory primed - zinc-coated factory primed - factory enamel

Attribute	Source	Unit	Value
Frame Head	COBie Guide	n/a	insert value
Frame Jam	COBie Guide	n/a	insert value
Frame Sill	COBie Guide	n/a	insert value
Fire Label Rating	COBie Guide/UFGS 2.8	n/a	UL 180 min A - UL 90 min B - UL 45 min C - UL 90 min D - UL 45 min E - UL 20 min
Hardware Set	COBie Guide/UFGS 2.10	n/a	insert value
Pressurization	COBie Guide	n/a	insert value
Egress Door	COBie Guide	n/a	insert value

UFGS Section and Date	UFGS MAY 2012	08 11 16	ALUMINUM DOORS AND FRAMES 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 13 13	Aluminum Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Door Width	COBie Guide	mm (in)	762 mm (30 in) - 914 mm (36 in) - 1066 mm (42 in)
Door Height	COBie Guide	mm (in)	2032 mm (80 in) - 2133 mm (84 in) - 2438 mm (96 in)
Door Thickness	COBie Guide	mm (in)	44.5 mm (1.75 in)
Air Infiltration	UFGS 1.2.2	cms/sm	2.63 by 10-5 at 0.30 kpa
Water Penetration	UFGS 1.2.3	n/a	No penetration at 0.38 kPa
Door Type, Standard	UFGS 2.3.2	n/a	Flush - Full Glazed Stile and Rail
Door Type, Custom	COBie Guide	n/a	insert value
Door Material	UFGS 2.2	n/a	Aluminum, 6063-T5 Alloy
Stile Width	UFGS 2.3.2.1	n/a	Narrow - Medium - Wide
Door Facing	UFGS 2.3.2.2	n/a	Vertical Ribbed - Embossed - Plain Smooth
Door Core	UFGS 2.3.2.2	n/a	Honeycomb - Solid Fibrous
Door Finish	UFGS 2.3.8	n/a	Anodic - Organic
Glazing Type	COBie Guide	n/a	insert value
Frame Type	COBie Guide	n/a	insert value
Frame Material	COBie Guide	n/a	Aluminum, 6063-T5 Alloy
Frame Finish	UFGS 2.3.8	n/a	Anodic - Organic
Frame Head	COBie Guide	n/a	insert value
Frame Jam	COBie Guide	n/a	insert value
Frame Sill	COBie Guide	n/a	insert value
Fire Label Rating	COBie Guide	n/a	insert value
Hardware Set	COBie Guide	n/a	insert value
Pressurization	COBie Guide	n/a	insert value
Egress Door	COBie Guide	n/a	insert value
UFGS Section and Date	UFGS MAY 2012	08 11 69	METAL STORM DOORS 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 13	Metal Doors

Attribute	Source	Unit	Value
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Door Width	COBie Guide	mm (in)	762 mm (30 in) - 914 mm (36 in) - 1066 mm (42 in)
Door Height	COBie Guide	mm (in)	2032 mm (80 in) - 2133 mm (84 in) - 2438 mm (96 in)
Door Thickness	COBie Guide	mm (in)	44.5 mm (1.75 in)
Air Infiltration	UFGS 1.2.2	cms/sm	2.63 by 10-5 at 0.30 kpa
Water Penetration	UFGS 1.2.3	n/a	No penetration at 0.38 kPa
Door Material	UFGS 2.2	n/a	Aluminum, 6063-T5 Alloy
Door Type, Standard	UFGS 2.3.2	n/a	Flush - Full Glazed Stile and Rail
Door Type, Custom	COBie Guide	n/a	insert value
Stile Width	UFGS 2.3.2.1	n/a	Narrow - Medium - Wide
Door Facing	UFGS 2.3.2.2	n/a	Vertical Ribbed - Embossed - Plain Smooth
Door Core	UFGS 2.3.2.2	n/a	Honeycomb - Solid Fibrous
Door Finish	UFGS 2.3.8	n/a	Anodic - Organic
Glazing Type	COBie Guide	n/a	insert value
Frame Type	COBie Guide	n/a	insert value
Frame Material	COBie Guide	n/a	insert value
Frame Finish	UFGS 2.3.8	n/a	Anodic - Organic
Frame Head	COBie Guide	n/a	insert value
Frame Jam	COBie Guide	n/a	insert value
Frame Sill	COBie Guide	n/a	insert value
Fire Label Rating	COBie Guide	n/a	insert value
Hardware Set	COBie Guide	n/a	insert value
Pressurization	COBie Guide	n/a	insert value
Egress Door	COBie Guide	n/a	insert value
UFGS Section and Date	UFGS MAY 2012	08 11 73	SLIDING FIRE DOORS 01/07
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 31 11 15	Fire Rated Sliding Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional - low voc - low toxicity - recycled content
Door Width	COBie Guide	mm (in)	762 mm (30 in) - 914 mm (36 in) - 1066 mm (42 in)
Door Height	COBie Guide	mm (in)	2032 mm (80 in) - 2133 mm (84 in) - 2438 mm (96 in)
Door Thickness	COBie Guide	mm (in)	44.5 mm (1.75 in)

Attribute	Source	Unit	Value
Door Type, Standard	UFGS 2.2	n/a	Steel-Covered Composite - Hollow-Metal - Corrugated Sheet Metal - Tin-Clad
Door Type, Custom	COBie Guide	n/a	insert value
Door Material	COBie Guide	n/a	Steel
Exterior Door Finish	UFGS 2.6	n/a	Galvanized
Interior Door Finish	UFGS 2.6	n/a	Galvanized - Shop Primed
Glazing Type	COBie Guide	n/a	insert value
Frame Type	COBie Guide	n/a	insert value
Frame Material	COBie Guide	n/a	insert value
Frame Finish	COBie Guide	n/a	insert value
Frame Head	COBie Guide	n/a	insert value
Frame Jam	COBie Guide	n/a	insert value
Frame Sill	COBie Guide	n/a	insert value
Fire Label Rating	UFGS 2.7	n/a	20 minute - 45 minute - 60 minute - 90 minute
Hardware Set	COBie Guide	n/a	insert value
Pressurization	COBie Guide	n/a	insert value
Egress Door	COBie Guide	n/a	insert value
Door Actuation	UFGS 2.3	n/a	Pneumatic - Electric
Door Operation	UFGS 2.3	n/a	Single-Slide - Center Parting

UFGS Section and Date	UFGS MAY 2012	08 13 73	SLIDING METAL DOORS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 13 19	Sliding Metal Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional - low voc - low toxicity - recycled content
Door Width	COBie Guide	mm (in)	762 mm (30 in) - 914 mm (36 in) - 1066 mm (42 in)
Door Height	COBie Guide	mm (in)	2032 mm (80 in) - 2133 mm (84 in) - 2438 mm (96 in)
Door Thickness	COBie Guide	mm (in)	44.5 mm (1.75 in)
Door Type, Standard	UFGS 2.3	n/a	Steel-Covered Composite - Hollow-Metal - Corrugated Sheet Metal - Tin-Clad
Door Type, Custom	COBie Guide	n/a	insert value
Door Material	COBie Guide	n/a	
Exterior Door Finish	UFGS 2.9	n/a	Galvanized
Interior Door Finish	UFGS 2.9	n/a	Galvanized - Shop Primed
Glazing Type	COBie Guide	n/a	
Frame Type	COBie Guide	n/a	
Frame Material	COBie Guide	n/a	
Frame Finish	COBie Guide	n/a	
Frame Head	COBie Guide	n/a	insert value
Frame Jam	COBie Guide	n/a	insert value
Frame Sill	COBie Guide	n/a	insert value

Attribute	Source	Unit	Value
Fire Label Rating	UFGS 2.3	n/a	3/4 hour - 1 1/2 hour - 3 hour - 4 hour
Hardware Set	COBie Guide	n/a	insert value
Pressurization	COBie Guide	n/a	insert value
Egress Door	COBie Guide	n/a	insert value
Door Actuation	UFGS 1.2.1.1	n/a	Manual - electric - pneumatic
Door Operation	UFGS 1.2.1.1	n/a	Single-Slide - Center Parting
Closer Type	UFGS 2.5	n/a	counterweight closing with weight boxes - cable reel closer - controlled speed cable reels
Locking Device	UFGS 2.8	n/a	heavy-duty hasp and staple - electric solenoid lock
UFGS Section and Date	UFGS MAY 2012	08 14 00	WOOD DOORS 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 15	Wood Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf - biobased
Door Width	COBie Guide	mm (in)	762 mm (30 in) - 914 mm (36 in) - 1066 mm (42 in)
Door Height	COBie Guide	mm (in)	2032 mm (80 in) - 2133 mm (84 in) - 2438 mm (96 in)
Door Thickness	COBie Guide	mm (in)	44.5 mm (1.75 in)
Door Type, Standard	UFGS 2.1	n/a	stile and rail - flush - x-ray resistant
Door Type, Custom	COBie Guide	n/a	insert value
Door Material	COBie Guide	n/a	insert value
Door Finish	UFGS 2.3.6	n/a	factory finished - field painted - plastic laminate
Glazing Type	COBie Guide	n/a	insert value
Frame Type	COBie Guide	n/a	insert value
Frame Material	COBie Guide	n/a	insert value
Frame Finish	UFGS 2.3.6	n/a	factory finished - field painted - plastic laminate
Frame Head	COBie Guide	n/a	insert value
Frame Jam	COBie Guide	n/a	insert value
Frame Sill	COBie Guide	n/a	insert value
Fire Label Rating	UFGS 2.1.7	n/a	3/4 hour - 1 1/2 hour - 3 hour - 4 hour
Hardware Set	COBie Guide	n/a	insert value
Pressurization	COBie Guide	n/a	insert value
Egress Door	COBie Guide	n/a	insert value
Door Operation	UFGS 2.1	n/a	swinging - bi-fold - sliding
Door Core	UFGS 2.1.2	n/a	tempered hardboard - medium density overlayed hardwood veneer
X-Ray Resistant	UFGS 2.1.5	n/a	yes - no
Acoustical Rating	UFGS 2.1.6	STC	35 - 40
Louver Type	UFGS 2.2.1	n/a	slat - sightproof inverted vee slat

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	08 22 20	FIBERGLASS REINFORCED PLASTIC (FRP) DOORS AND FRAMES 05/09
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 19 11	Fiberglass Composite Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Door Width	COBie Guide	mm (in)	762 mm (30 in) - 914 mm (36 in) - 1066 mm (42 in)
Door Height	COBie Guide	mm (in)	2032 mm (80 in) - 2133 mm (84 in) - 2438 mm (96 in)
Door Thickness	COBie Guide	mm (in)	44.5 mm (1.75 in)
Door Type, Standard	UFGS 2.2.1	n/a	swing - sliding
Door Type, Custom	COBie Guide	n/a	insert value
Door Material	COBie Guide	n/a	insert value
Door Finish	COBie Guide	n/a	insert value
Glazing Type	COBie Guide	n/a	insert value
Frame Type	COBie Guide	n/a	insert value
Frame Material	COBie Guide	n/a	insert value
Frame Finish	COBie Guide	n/a	insert value
Frame Head	COBie Guide	n/a	insert value
Frame Jam	COBie Guide	n/a	insert value
Frame Sill	COBie Guide	n/a	insert value
Fire Label Rating	UFGS 2.2.2	n/a	20 minute - 45 minute - 60 minute - 90 minute
Hardware Set	COBie Guide	n/a	insert value
Pressurization	COBie Guide	n/a	insert value
Egress Door	COBie Guide	n/a	insert value
Flame Spread Rating	UFGS 2.1.3	n/a	25 or less
Astragal	UFGS 2.2.1.1	n/a	yes - no
Structural Performance	UFGS 2.4.1	kPa	1.4
Air Infiltration	UFGS 2.4.2	n/a	2.63 by 10-5 at 0.30 kPa
Water Penetration	UFGS 2.4.3	n/a	No penetration at 0.38 kPa
UFGS Section and Date	UFGS MAY 2012	08 32 13	ALUMINUM SLIDING GLASS DOORS 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 23 13	Sliding All Glass Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content

Attribute	Source	Unit	Value
Door Width	COBie Guide	mm (in)	762 mm (30 in) - 914 mm (36 in) - 1066 mm (42 in)
Door Height	COBie Guide	mm (in)	2032 mm (80 in) - 2133 mm (84 in) - 2438 mm (96 in)
Door Thickness	COBie Guide	mm (in)	44.5 mm (1.75 in)
Door Type, Standard	UFGS 2.1	n/a	SGD-R15 - SGD-C20 - SGD-HC40
Door Type, Custom	COBie Guide	n/a	insert value
Door Material	COBie Guide	n/a	insert value
Door Finish	UFGS 2.1.5	n/a	AA-M-10-C22-A31 - AA-M-10-C22-A41
Glazing Type	UFGS 2.1.3	n/a	Kind FT, Condition A, Type I or II, Class 1, Quality q3, not less than 6 mm thick
Frame Type	COBie Guide	n/a	insert value
Frame Material	COBie Guide	n/a	insert value
Frame Finish	COBie Guide	n/a	insert value
Frame Head	COBie Guide	n/a	insert value
Frame Jam	COBie Guide	n/a	insert value
Frame Sill	COBie Guide	n/a	insert value
Fire Label Rating	COBie Guide	n/a	insert value
Hardware Set	COBie Guide	n/a	insert value
Pressurization	COBie Guide	n/a	insert value
Egress Door	COBie Guide	n/a	insert value
Locking Mechanism	UFGS 2.1.1	n/a	inside latch only - lock on outside and thumb-turn inside - lock both sides
Glazing Method	UFGS 2.1.2	n/a	single glazed - double glazed
Screen Material	UFGS 2.1.4	n/a	aluminum - fiberglass

UFGS Section and Date	UFGS MAY 2012	08 33 13	METAL ROLLING COUNTER DOORS 05/09
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 13 25 11	Roller Shutter Overhead Metal Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - reduced emissions - regional - low voc - low toxicity - recycled content
Curtain	UFGS 2.2	n/a	aluminum - stainless steel - galvanized steel
Jamb Guides	UFGS 2.2	n/a	aluminum - stainless steel - galvanized steel
Counterbalance Rating	UFGS 2.2	n/a	7500 cycles
Hood	UFGS 2.2	n/a	aluminum - stainless steel - galvanized steel
Fire Rating	UFGS 2.4	n/a	None - Class A - Class B - Class C - Class D
Closing Device	UFGS 2.6	n/a	none - fusible link - integrated
Finish	UFGS 2.7	n/a	clear anodized - no. 4 brushed - prime coat - factory finish
Operation	UFGS 3.1	n/a	push up - crank - motor

UFGS Section and Date	UFGS MAY 2012	08 33 23	OVERHEAD COILING DOORS 07/07
-----------------------	---------------	----------	------------------------------

Attribute	Source	Unit	Value
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 13 25 11	Roller Shutter Overhead Metal Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - reduced emissions - regional - low voc - low toxicity - recycled content
Curtain	UFGS 2.3.1	n/a	aluminum - stainless steel - galvanized steel
Thermal Resistance	UFGS 2.3.3	R Value	4
Overhead Drum	UFGS 2.3.10	n/a	aluminum - stainless steel - galvanized steel
Jamb Guides	UFGS 2.4.1	n/a	steel channels - steel angles - stainless steel channels - stainless steel angles
Hood	UFGS 2.4.3	n/a	aluminum - stainless steel - galvanized steel
Operation	UFGS 2.6/2.7	n/a	push up - crank - motor
Fire Rating	UFGS 2.8	n/a	None - Class A - Class B - Class C - Class D

UFGS Section and Date	UFGS MAY 2012	08 34 01	FORCED ENTRY RESISTANT COMPONENTS 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 49 15	Forced Entry and Ballistic Resistant Door
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Threat Level	UFGS 1.4	n/a	Insert Value
Fire Rating	UFGS 2.3.1	n/a	None - Class A - Class B - Class C - Class D
Acoustical Rating	UFGS 2.3.2	STC	Insert Value
Lock Type	UFGS 2.3.6.1	n/a	series 1000, operational grade 1, security grade 1 or 1A
Hinge Type	UFGS 2.3.6.2	n/a	Grade 1 removable pin - Grade 1 non-removable pin
Closer Type	UFGS 2.3.6.4	n/a	Grade 1
Door Stop Type	UFGS 2.3.6.5	n/a	floor mounted - wall mounted - overhead surface mounted
Louver NFVA	UFGS 2.4	percent	17 - 39
Glazing Material	UFGS 2.5.3	n/a	laminated glass - acrylic plastic - polycarbonate plastic - glass/plastic

UFGS Section and Date	UFGS MAY 2012	08 34 02	BULLET-RESISTANT COMPONENTS 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 49 17	Ballistic Resistant Door
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name

Attribute	Source	Unit	Value
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Threat Level	UFGS 1.4	n/a	Insert Value
Fire Rating	UFGS 2.3.1	n/a	None - Class A - Class B - Class C - Class D
Acoustical Rating	UFGS 2.3.2	STC	Insert Value
Lock Type	UFGS 2.3.6.1	n/a	series 1000, operational grade 1, security grade 1 or 1A
Hinge Type	UFGS 2.3.6.2	n/a	Grade 1 removable pin - Grade 1 non-removable pin
Closer Type	UFGS 2.3.6.4	n/a	Grade 1
Door Stop Type	UFGS 2.3.6.5	n/a	floor mounted - wall mounted - overhead surface mounted
Louver NFVA	UFGS 2.4	percent	17 - 39
Glazing Material	UFGS 2.6.1	n/a	laminated glass - acrylic plastic - polycarbonate plastic - glass/plastic

UFGS Section and Date	UFGS MAY 2012	08 34 16.10	STEEL SLIDING HANGAR DOORS 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 41	Hanger Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - reduced emissions - regional - low voc - low toxicity - recycled content
Wind Load	UFGS 1.2.4	kPa	1.54
Door Exterior Covering	UFGS 2.1	n/a	sheet steel - galvanized steel - pre-formed siding
Door Interior Covering	UFGS 2.1	n/a	sheet steel - galvanized steel - pre-formed siding
U Value	UFGS 2.1.7	n/a	Insert Value
Acoustical Rating	UFGS 2.1.7	STC	Insert Value
Personnel Door	UFGS 2.1.9	n/a	yes - no
Door Operation	UFGS 2.3	n/a	unidirectional - biparting - as noted

UFGS Section and Date	UFGS MAY 2012	08 34 16.20	VERTICAL LIFT FABRIC DOORS 10/06
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 41	Hanger Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional - low voc - low toxicity - recycled content
Wind Load	UFGS 1.2.4	kPa	Insert Value

Attribute	Source	Unit	Value
Operation Speed	UFGS 1.4.3	mm/sec	127
Door Fabric	UFGS 2.1.5	g/m2	Insert Value
Personnel Door	UFGS 2.8	n/a	yes - no
UFGS Section and Date	UFGS MAY 2012	08 34 16	CORROSION CONTROL HANGAR DOORS 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 41	Hanger Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - reduced emissions - regional - low voc - low toxicity - recycled content
Design Load	UFGS 1.6.3	kg	22.7
Door Exterior Covering	UFGS 2.1	n/a	pre-formed siding
Door Interior Covering	UFGS 2.1	n/a	aluminum
Personnel Door	UFGS 2.1.9	n/a	yes - no
UFGS Section and Date	UFGS MAY 2012	08 34 19.10 20	ROLLING SERVICE [AND FIRE] DOORS 02/12
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 13 25 11	Roller Shutter Overhead Metal Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - reduced emissions - regional - low voc - low toxicity - recycled content
Operating Cycles	UFGS 2.1.1	cycles / day	10
Curtain	UFGS 2.2.1	n/a	aluminum - stainless steel - galvanized steel - steel
Thermal Resistance	UFGS 2.2.1	R Value	Insert Value
Hood	UFGS 2.4.3	n/a	aluminum - stainless steel - galvanized steel
Operation	UFGS 2.3/2.4	n/a	push up - chain - crank - motor
Fire Rating	UFGS 2.6	n/a	None - Class A - Class B - Class C - Class D
UFGS Section and Date	UFGS MAY 2012	08 34 49.00 20	HEMP SHIELDED DOOR 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 37 15 21	High Energy Magnetic Pulse Protection Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof

Attribute	Source	Unit	Value
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - reduced emissions - regional - low voc - low toxicity - recycled content
Shielding Attenuation	UFGS 1.2.3	n/a	SE = 20 log(Vc/Vm)
Door Material	UFGS 2.1	n/a	Steel
Door Operation	UFGS 2.1	n/a	swinging - sliding
Door Operating Force	UFGS 2.3.1	Newtons	156
Shielded	UFGS 2.9.6	n/a	yes - no
UFGS Section and Date	UFGS MAY 2012	08 34 53	SECURITY DOORS AND FRAMES 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 49	Security Rated Door
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - reduced emissions - regional - low voc - low toxicity - recycled content
Fire Rating	UFGS 2.2	n/a	None - 6 hour - 4 hour - 2 hour
Day Gate	UFGS 2.4	n/a	yes - no
UFGS Section and Date	UFGS MAY 2012	08 34 59	VAULT DOORS AND DAY GATES 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-21 35 21 15	Vault Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - reduced emissions - regional - low voc - low toxicity - recycled content
Fire Rating	UFGS 2.2	n/a	None - 6 hour - 4 hour - 2 hour
Day Gate Type	UFGS 2.3	n/a	standard - custom
UFGS Section and Date	UFGS MAY 2012	08 34 63	DETENTION HOLLOW METAL FRAMES, DOORS, AND DOOR FRAMES 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 39	Detention Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof

Attribute	Source	Unit	Value
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - reduced emissions - regional - low voc - low toxicity - recycled content
Door Material	UFGS 2.2.1	n/a	cold rolled pickled steel
Opening Provisions	UFGS 2.4	n/a	Speaking ports - Louvers - View ports - Food passes
UFGS Section and Date UFGS MAY 2012 08 34 73 SOUND CONTROL DOOR ASSEMBLIES 05/12			
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 37 13	Sound Control Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	reduced emissions - regional - low voc - low toxicity - recycled content
Door Construction	UFGS 1.3.1	n/a	Category A - Category B
Acoustical Rating	UFGS 2.2	STC	25 - 30 - 35 - 40 - 45
Fire Rating	UFGS 2.3/2.4	n/a	None - Class A - Class B - Class C - Class D
Door Finish	UFGS 2.3/2.4	n/a	Insert Value
Vision Panels	UFGS 2.8	n/a	none - acoustical plate glass
Threshold Material	UFGS 2.10	n/a	metal - hardwood
Astragal	UFGS 2.11	n/a	yes - no
UFGS Section and Date UFGS MAY 2012 08 36 13 SECTIONAL OVERHEAD DOORS 08/11			
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 13 25 13	Sectional Overhead Metal Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - reduced emissions - regional - low voc - low toxicity - recycled content
Door Designation	UFGS 2.2	n/a	Residential - Commercial
Wind Load	UFGS 2.3	kPa	0.96
Door Material	UFGS 2.4	n/a	Steel - Aluminum
U Value	UFGS 2.4.1.1	n/a	maximum 0.14
Operation	UFGS 2.5/2.5	n/a	pushup - chain hoist - motor
Door Finish	UFGS 2.8	n/a	galvanized and shop primed - anodized

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	08 36 19	VERTICAL LIFT DOORS 11/11
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 13 25	Overhead Metal Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - reduced emissions - regional - low voc - low toxicity - recycled content
Wind Load	UFGS 2.2	kPa	1
Door Material	UFGS 2.4	n/a	Steel - Aluminum
Operation	UFGS 2.3/2.4	n/a	pushup - chain hoist - motor
Door Finish	UFGS 2.6	n/a	galvanized and shop primed - anodized
UFGS Section and Date	UFGS MAY 2012	08 39 53	BLAST RESISTANT DOORS (OVAL ARCH MAGAZINES) 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 49 11	Blast Resistant Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - reduced emissions - regional - low voc - low toxicity - recycled content
Operation	UFGS 2.3	n/a	manual
Door Finish	UFGS 2.6	n/a	galvanized and shop primed
UFGS Section and Date	UFGS MAY 2012	08 39 54	BLAST RESISTANT DOORS 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 49 11	Blast Resistant Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - reduced emissions - regional - low voc - low toxicity - recycled content
Hinge Type	UFGS 2.2.1	n/a	type 1 - type 2 - type 3
Latching	UFGS 2.2.2	n/a	jamb - multi-point
Handle Type	UFGS 2.2.2.7	n/a	handle - wheel - wheel-and-spoke
U Value	UFGS 2.4.3	n/a	maximum 1.36

Attribute	Source	Unit	Value
Door Operating Force	UFGS 2.5.1.7/2.5.3.5	Newtons	90 - 135 - 180
Door Type	UFGS 2.5.2.1/2.5.3.1	n/a	Structural Steel - double structural steel - reinforced concrete - double reinforced concrete
Air Infiltration	UFGS 2.6.4	n/a	90 L/s at 76.7 Pa
Acoustical Rating	UFGS 2.6.5	STC	Insert Value
Fire Rating	UFGS 2.6.6	n/a	None - Class A - Class B - Class C - Class D
UFGS Section and Date	UFGS MAY 2012	08 41 13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 33 21 11	Aluminum-Framed Entrances
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional - low voc - low toxicity - recycled content
Air Infiltration	UFGS 2.1.2	n/a	0.0017 cubic meters/square meter
Wind Loads	UFGS 2.1.2	n/a	Insert Value
U Value	UFGS 2.1.2.4	n/a	Insert Value
CRF	UFGS 2.1.2.4	n/a	Insert Value
Water Infiltration	UFGS 2.1.2.5	n/a	No infiltration at 956 Pa
UFGS Section and Date	UFGS MAY 2012	08 44 00	CURTAIN WALL AND GLAZED ASSEMBLIES 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-13 33 27 11 15	Translucent Curtain Wall Assemblies
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional - low voc - low toxicity - recycled content
Deflection	UFGS 1.4.3.1	n/a	Insert Value
Water Penetration	UFGS 1.4.3.2	n/a	No infiltration at 0.19 kPa
Air Infiltration	UFGS 1.4.3.3	n/a	0.005 cubic meters/square meter
System Design	UFGS 1.5.2	n/a	unit system - unit and mullion system - insert value
Wind Loads	UFGS 1.11.2	n/a	Insert Value
Glass Type	UFGS 2.1.11	n/a	Float Glass - Heat-Absorbing Glass - insulating glass - spandrel glass
Panel Type	UFGS 2.1.16	n/a	metal - adhesive bonded - non-metallic
Window Type	UFGS 2.1.17	n/a	fixed - double hung - projected - vertically pivoted - horizontally pivoted - sliding
Frame Finish	UFGS 2.4.5	n/a	Insert Value

Attribute	Source	Unit	Value
U Value	UFGS 2.8.6	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	08 51 13	ALUMINUM WINDOWS 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-17 13 13	Metal Windows
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.7	n/a	energy saving - regional - low voc - low toxicity - recycled content
Window Number	COBie Guide	n/a	Insert Value
Security Code	COBie Guide	n/a	Insert Value
Window Rating	COBie Guide	n/a	Insert Value
Glazing Type	COBie Guide	n/a	Insert Value
Window Size - Length	COBie Guide	mm (in)	Insert Value
Window Size - Height	COBie Guide	mm (in)	Insert Value
Window Size - Width	COBie Guide	mm (in)	Insert Value
Window Operation	COBie Guide/UFGS 2.1	n/a	AP - C - H - HS - AP - TH - VP - F
Frame Material	COBie Guide	n/a	Insert Value
U-Factor	COBie Guide	n/a	Insert Value
Structural Performance	UFGS 1.11.1	n/a	Insert Value
Anti-Terrorism Performance	UFGS 1.11.2	n/a	Insert Value
Air Infiltration	UFGS 1.11.3	n/a	Insert Value
Water Penetration	UFGS 1.11.4	n/a	Insert Value
Thermal Performance	UFGS 1.11.5	n/a	Insert Value
AAMA Rating	UFGS 2.1	n/a	Insert Value
Finish	UFGS 2.2.9	n/a	anodic - organic
UFGS Section and Date	UFGS MAY 2012	08 51 23	STEEL WINDOWS 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-17 13 13	Metal Windows
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.5	n/a	energy saving - regional - low voc - low toxicity - recycled content
Air Infiltration	UFGS 1.3.1	n/a	0.05 cubic meter per minute per meter
Water Penetration	UFGS 1.3.1	n/a	No infiltration at 75 Pa
Structural Performance	UFGS 1.3.2	n/a	958 Pa

Attribute	Source	Unit	Value
Finish	UFGS 2.8	n/a	shop primed - factory finished
Window Type	UFGS 2.9	n/a	awning ventilator - casement - hopper ventilator - continuous - fixed - horizontally pivoted - projected - security
Window Category	UFGS 2.9	n/a	standard intermediate - hevy intermediate - heavy custom
Operation	UFGS 2.11	n/a	manual - pole - crank - mechanical - chain - steel shaft
UFGS Section and Date	UFGS MAY 2012	08 51 69.10	ALUMINUM STORM WINDOWS 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-17 13 13	Metal Windows
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional - low voc - low toxicity - recycled content
Window Type	UFGS 2.1.2	n/a	FEW - HWE - VWE - SGE
Finish	UFGS 2.3	n/a	anodic - organic
UFGS Section and Date	UFGS MAY 2012	08 52 00	WOOD WINDOWS 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-17 13 15	Wood Windows
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.4	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf
Window Material	UFGS 2.1	n/a	Virgin Lumber - Engineered Wood
Window Type	UFGS 2.2	n/a	Shingle Hung - Double Hung - Awning - Casement - Horizontal Sliding - Stationary
Window Finish	UFGS 2.4	n/a	paint - PVC clad - aluminum clad
UFGS Section and Date	UFGS MAY 2012	08 52 70	WOOD WINDOWS - REPAIR AND REHABILITATION 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-17 13 15	Wood Windows
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf

Attribute	Source	Unit	Value
Glazing Compound	UFGS 2.6	n/a	oil based - silicone
Wood Consolidant Type	UFGS 2.8	n/a	Liquid - Paste
UFGS Section and Date	UFGS MAY 2012	08 53 00	PLASTIC WINDOWS 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-17 13 17	Plastic Windows
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.6	n/a	regional - low voc - low toxicity
Condensation Resistance Factor	UFGS 2.1	n/a	Insert Value
Solar Heat Gain Coefficient	UFGS 2.1	n/a	Insert Value
U Value	UFGS 2.1	n/a	Insert Value
Glass Type	UFGS 2.2.3	n/a	Insert Value
Window Type	UFGS 2.3	n/a	Awning - Casement - Hung - Sliding - Projected - Fixed
Performance Class	UFGS 2.3.7.3	n/a	R15 - Insert Value
Design Pressure	UFGS 2.4.1	n/a	72 - 96 - 192
UFGS Section and Date	UFGS MAY 2012	08 56 46.10 20	RADIO FREQUENCY SHIELDED ENCLOSURES, DEMOUNTABLE TYPE 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-17 13 27 17 13 15	Radio Frequency Protection Windows
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Magnetic Interference Attenuation	UFGS 2.1.1	n/a	60 dB at 14 kHz increasing linearly to 100 dB
Electric Interference Attenuation	UFGS 2.1.1	n/a	100 dB from 1 kHz to 50 MHz
Plane Wave Interference Attenuation	UFGS 2.1.1	n/a	100 dB between 50 MHz and 10 GHz
Acoustical Rating	UFGS 2.1.2	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	08 56 46.20 20	RADIO FREQUENCY SHIELDED ENCLOSURES, WELDED TYPE 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-17 13 27 17 13 15	Radio Frequency Protection Windows
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX

Attribute	Source	Unit	Value
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Magnetic Interference Attenuation	UFGS 2.1.1	n/a	60 dB at 14 kHz increasing linearly to 100 dB
Electric Interference Attenuation	UFGS 2.1.1	n/a	100 dB from 1 kHz to 50 MHz
Plane Wave Interference Attenuation	UFGS 2.1.1	n/a	100 dB between 50 MHz and 10 GHz
Acoustical Rating	UFGS 2.1.2	n/a	Insert Value

UFGS Section and Date	UFGS MAY 2012	08 56 53	BLAST RESISTANT TEMPERED GLASS WINDOWS 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-17 13 29 13	Blast Resistant Windows
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Glass Type	UFGS 2.3	n/a	Grade B, Style I, Type 2 Class 1 - Grade B, Style I, Type 2 Class 2
Finish	UFGS 2.5.11	n/a	anodic - organic
Static Design Resistance	UFGS 2.6.1.2	kPa	insert value

UFGS Section and Date	UFGS MAY 2012	08 56 63	DETENTION AND SECURITY WINDOWS 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-17 13 27 13	Detention Windows
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Air Infiltration	UFGS 1.3.1	n/a	0.8 L/s per meter at 75 Pa
Water Penetration	UFGS 1.3.1	n/a	No infiltration at 75 Pa
Structural Performance	UFGS 1.3.2	Pa	960
Finish	UFGS 2.8	n/a	shop primed
Window Type	UFGS 2.9	n/a	fixed

UFGS Section and Date	UFGS MAY 2012	08 60 45	[SKYLIGHTS][AND][TRANSLUCENT PANELS] 02/12
OCCS Table 23 Properties	OCCS MAY 2012	23-17 17 00	Skylights

Attribute	Source	Unit	Value
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Panel Type	UFGS 2.1	n/a	glass fiber reinforced polyester - extruded cellular thermoplastic polycarbonate
Fire Rating	UFGS 2.3	n/a	Class A =Class B - Class C
Condensation Index	UFGS 2.4.4	n/a	insert value
Air Infiltration	UFGS 2.5	n/a	less than 0.2 L/s per meter at 75 Pa
Water Penetration	UFGS 2.5	n/a	No infiltration at 718 Pa
Impact Resistance	UFGS 2.5	N-m	68 - 271
Live Load	UFGS 2.5	n/a	insert value
Dead Load	UFGS 2.5	n/a	insert value

UFGS Section and Date	UFGS MAY 2012	08 71 00	DOOR HARDWARE 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-17 19 11	Hardware for Doors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Hardware Item Category	UFGS 2.3	n/a	Hinge - Protection Device - Pivot - Lock - Latch - Exit Device - Closer - Insert Value
Hardware Item Type	UFGS 2.3	n/a	Insert Value
Hardware Item Grade	UFGS 2.3	n/a	Insert Value
Keying System	UFGS 2.3.8	n/a	great master - grand master - existing - none
BHMA Finish	UFGS 2.5	n/a	Insert Value

UFGS Section and Date	UFGS MAY 2012	08 71 63.10	ELECTRICAL LOCKING CONTROL FOR BRIGS 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-17 19 11 21	Door Barrier Locks
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional - low voc - low toxicity - recycled content
Control Panel Type	UFGS 2.1/2.2/2.5	n/a	Locking - Graphic Locking - Linear Locking -

Attribute	Source	Unit	Value
Voltage	UFGS 2.4.4	n/a	120 VAC - 24VDC - 24VAC
UFGS Section and Date	UFGS MAY 2012	08 71 63	DETENTION HARDWARE 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-17 19 11 21	Door Barrier Locks
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional - low voc - low toxicity
Hinge Type	UFGS 2.4	n/a	A8191 HT - A8192 HT
Lock Type	UFGS 2.5	n/a	Type 1 - Type 2 - Type 3 - Type 4 - Type 5 - Type 6 - Type 7
Closer Type	UFGS 2.6	n/a	Type 1 - Type 2
Door Stop Type	UFGS 2.8	n/a	PH1 - PH2 - OH3 - FS1 - FS2 - FS3
Door Position Switch Type	UFGS 2.10	n/a	Type 1 - Type 2
UFGS Section and Date	UFGS MAY 2012	08 81 00	GLAZING 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-17 15 00	Glazing
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.6	n/a	regional - low voc - low toxicity
Glazing Type	UFGS 2.1/2.2/2.3	n/a	Monolithic Glass - Sealed Insulated Glass - Acrylic - Polycarbonate - Bullet Resistant Plastic Sheet
Glass Kind	UFGS 2.1	n/a	Clear - Annealed - Heat Absorbing - Wired - Patterned - Laminated - Bullet Resisting - Mirror - One-Way Vision - Tempered - Heat Strengthened - Spandrel
Glass Condition	UFGS 2.1	n/a	A - B - Insert Value
Glass Type	UFGS 2.1	n/a	I - II
Glass Class	UFGS 2.1	n/a	1 - 2
Glass Quality	UFGS 2.1	n/a	q3
Thickness	UFGS 2.1/2.2/2.3	mm	Insert Value
Glazing Color	UFGS 2.1/2.2/2.3	n/a	Insert Value
Number of Panes	UFGS 2.1/2.2/2.3	n/a	Insert Value
Airspace Depth	UFGS 2.1/2.2/2.3	mm	13 - 10 - 6
Airspace Fill	UFGS 2.1/2.2/2.3	n/a	Argon - Krypton - Air
Acoustical Rating	UFGS 2.1/2.2/2.3	STC	26 - 30 - 35
U Value	UFGS 2.1/2.2/2.3	n/a	Insert Value
Solar Heat Gain Coefficient	UFGS 2.1/2.2/2.3	n/a	Insert Value

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	08 87 16	FRAGMENT RETENTION FILM FOR GLASS 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-17 15 25 13	Safety Films
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Film Thickness	UFGS 2.2	mm	0.1 - 0.18 - 0.25
Tensile Strength	UFGS 2.2	mPa	172.4
Peel Strength	UFGS 2.2	N/m	930 - 790
Surface Abrasion	UFGS 2.2	n/a	less than 3.2 percent
Flame Spread	UFGS 2.2	n/a	25
Smoke Density	UFGS 2.2	n/a	100
UFGS Section and Date	UFGS MAY 2012	08 88 53	DETENTION AND SECURITY GLAZING 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-17 15 19 11	Security Glazing
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Glazing Assembly Type	UFGS 2.1	n/a	Glass-Clad Polycarbonate - Plastic Laminated - Glass Laminated
Glazing Material	UFGS 2.2	n/a	Chemically Strengthened Glass - Annealed Wired Glass - Polycarbonate
Glazing Type	UFGS 2.3	n/a	1 - 2 - 3 - 4 - 4W - 5 - 5W - 6
UFGS Section and Date	UFGS MAY 2012	08 91 00	METAL [WALL] [AND] [DOOR] LOUVERS 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-17 11 11 25 21	Door Louvers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Louver Material	UFGS 2.2	n/a	Aluminum - Galvanized Steel - Stainless Steel

Attribute	Source	Unit	Value
Louver Type	UFGS 2.2/2.3	n/a	Wall - Door
Wind Load	UFGS 2.2	kPa	1.44
Water Penetration	UFGS 2.2	n/a	0.06 kilograms or less per square meter
NFVA	UFGS 2.2	n/a	Insert Value
Louver Finish	UFGS 2.5	n/a	anodic - organic

UFGS Section and Date	UFGS MAY 2012	09 06 90	COLOR SCHEDULE 05/09
OCCS Table 23 Properties	OCCS MAY 2012	23-15 00 00	Interior and Finish Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts

UFGS Section and Date	UFGS MAY 2012	09 22 00	SUPPORTS FOR PLASTER AND GYPSUM BOARD 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 11 11 11	Gypsum Board Fixed Partitions
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Material	UFGS 2.1	n/a	Galvanized Steel
Material Thickness	UFGS 2.1	gage	25 - 22 - 20
Component Type	UFGS 2.1	n/a	Furring - Lathing - Z-Channel - Clip

UFGS Section and Date	UFGS MAY 2012	09 22 36	LATH 01/08
OCCS Table 23 Properties	OCCS MAY 2012	23-13 17 17	Lath
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Material	UFGS 2.1	n/a	Galvanized Steel
Material Thickness	UFGS 2.1	gage	25 - 22 - 20
Lath Type	UFGS 2.1	n/a	diamond mesh - self-furring diamond mesh - flat rib - sheet - welded wire
Lath Weight	UFGS 2.1	kg/m2	Insert Value

Attribute	Source	Unit	Value
Backing	UFGS 2.1	n/a	paper backed - foil backed - no backing - fire resistant
UFGS Section and Date	UFGS MAY 2012	09 23 00	GYPSUM PLASTERING 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 11 11 13 11	Gypsum Plaster Fixed Partitions
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3.2	n/a	regional - low voc - low toxicity
Base Coat	UFGS 2.2	n/a	neat - ready mixed - wood fibered - high strength
Finish Coat	UFGS 2.3	n/a	gaging - high strength gaging - keenes cement - acoustical type I acoustical type II
Proportioning	UFGS 2.7	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	09 23 82	FIREPROOF GYPSUM PLASTERING 05/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 11 11 13 11	Gypsum Plaster Fixed Partitions
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Fire Rating	UFGS 1.5.4	n/a	4 hour
Flame Spread	UFGS 2.1	n/a	10
Fuel Contributed	UFGS 2.1	n/a	5
Smoke Developed	UFGS 2.1	n/a	0
UFGS Section and Date	UFGS MAY 2012	09 24 23	STUCCO 05/09
OCCS Table 23 Properties	OCCS MAY 2012	23-15 11 11 13 13	Portland Cement Plaster Fixed Partitions
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Portland Cement Type	UFGS 2.1	n/a	gray I - gray II - gray III - white I - white II - white III

Attribute	Source	Unit	Value
Accessory Material	UFGS 2.5	n/a	Galvanized Steel - PVC
Lath Type	UFGS 2.1	n/a	diamond mesh - self-furring diamond mesh - flat rib - sheet - welded wire
Lath Weight	UFGS 2.1	kg/m2	Insert Value
Backing	UFGS 2.1	n/a	paper backed - foil backed - no backing - fire resistant
UFGS Section and Date	UFGS MAY 2012	09 26 00	VENEER PLASTER 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-15 11 11 13	Plaster Fixed Partitions
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.4	n/a	regional - low voc - low toxicity
Gypsum Backing Board	UFGS 2.1.3	n/a	Regular - Foil-backed - Water-Resistant - Type X
Gypsum Base	UFGS 2.1.4	n/a	Regular - Foil-backed - Type X
Compressive Strength	UFGS 2.1.5	mPa	17
Accessory Material	UFGS 2.1.10	n/a	Galvanized Steel - PVC
UFGS Section and Date	UFGS MAY 2012	09 29 00	GYPSUM BOARD 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-15 11 11 11	Gypsum Board Fixed Partitions
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3/1.6	n/a	regional - low voc - low toxicity - recycled content
Board Type	UFGS 2.1	n/a	regular - foil backed - type X - water resistant -water resistant type X
Backer Type	UFGS 2.1	n/a	regular - foil backed - type X
Facer	UFGS 2.1.5	n/a	paper - glass mat
Impact Resistant	UFGS 2.1.6	n/a	yes - no
Predecorated	UFGS 2.1.7	n/a	yes - no
Fastening method	UFGS 2.1.10	n/a	nails - screws - staples - adhesive
Accessory Material	UFGS 2.1.14	n/a	Galvanized Steel - PVC
UFGS Section and Date	UFGS MAY 2012	09 30 00	CERAMIC TILE, QUARRY TILE, AND PAVER TILE 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 13 13	Tile Flooring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX

Attribute	Source	Unit	Value
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.2.3	n/a	regional - low voc - low toxicity - recycled content
Tile Class	UFGS 2.1	n/a	Class 0 - class I - class II - class III - class IV - class IV Plus
Tile Type	UFGS 2.1	n/a	mosaic - quarry - paver - detectablewatning - porcelain - glazed wall - stone
Mortar Type	UFGS 2.4	n/a	Dry-Set Portland Cement - Conductive Dry-Set - Latex-Portland Cement
Grout Type	UFGS 2.4	n/a	sand portland cement grout - dry-set grout - latex-portland cement grout - commercial portland cement grout - epoxy resin - furan resin
VOC Limit	UFGS 2.4	g/l	Insert Value
Backer Panel	UFGS 2.4	n/a	cementitious - glass mat gypsum

UFGS Section and Date	UFGS MAY 2012	09 35 16	CHEMICAL-RESISTANT QUARRY TILE 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 13 13 15	Quarry Tile Flooring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3	n/a	regional - low voc - low toxicity
Tile Type	UFGS 2.1	n/a	quarry - slip-resistant quarry
Mortar Type	UFGS 2.1	n/a	furan - epoxy
Grout Type	UFGS 2.1	n/a	furan - epoxy
Chemical Resistance	UFGS 2.2.1	g/l	No Change after subject to specified chemical attack

UFGS Section and Date	UFGS MAY 2012	09 51 00	ACOUSTICAL CEILINGS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 19 15 11 11	Acoustical Ceiling Tile
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.5	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf - biobased
Fire Rating	UFGS 1.2.1	n/a	1 hour - 1-1/2 hour - 2 hour - 3 hour - 4 hour

Attribute	Source	Unit	Value
Attenuation Class	UFGS 2.1	CAC	Insert Value
Noise Reduction Coefficient	UFGS 2.1	NRC	Insert Value
Light Reflectance Coefficient	UFGS 2.1	n/a	LR-1, 0.75 or greater
Flame Spread	UFGS 2.1	n/a	25 or less
Ceiling Unit Type	UFGS 2.1	n/a	type I - type II - type III - type IV - type V - type VI - type VII - type VIII - type IX - type X
Ceiling Unit Pattern	UFGS 2.1	n/a	A - B - C - D - E - F - G - I - J - K
Grid System	UFGS 2.1	n/a	exposed - concealed
Nominal Panel Size	UFGS 2.1	mm x mm	Insert Value
Suspension System	UFGS 2.2	n/a	light duty - intermediate duty - heavy duty
UFGS Section and Date	UFGS MAY 2012	09 62 38	STATIC CONTROL FLOORING 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 11 15 17	Static Resistant Floor Treatment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf - biobased
Flooring Type	UFGS 2.2/2.3	n/a	conductive vinyl tile - conductive rubber tile - conductive rubber sheet flooring - Static-Dissipative Vinyl Tile - Static-Dissipative Rubber Tile - Static-Control Carpet
Electrical Resistance	UFGS 2.2/2.3	ohms	Insert Value
Flooring Thickness	UFGS 2.2/2.3	mm	Insert Value
UFGS Section and Date	UFGS MAY 2012	09 64 00	PORTABLE (DEMOUNTABLE) WOOD FLOORING 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 19 13	Portable Floors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf - biobased
Framing Members	UFGS 2.1.1	n/a	Fir - SYP
Finish Flooring	UFGS 2.1.2	n/a	hard maple 33/32 - hard maple 15/32
Flooring Finish	UFGS 2.1.10	n/a	group II - group III
UFGS Section and Date	UFGS MAY 2012	09 64 23	WOOD PARQUET FLOORING 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 13 11 23	Wood Parquet Flooring

Attribute	Source	Unit	Value
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf - biobased
Flooring Type	UFGS 2.1	n/a	laminated block - slat block - solid block
Flooring Material	UFGS 2.1	n/a	hard maple - red oak - white oak - birch - ash - beech - walnut - cherry
Flooring Unit Dimensions	UFGS 2.1	mm x mm	Insert Value
Flooring Thickness	UFGS 2.1	mm	Insert Value
Flooring Grade	UFGS 2.1	n/a	First - FAS
Flooring Finish	UFGS 2.1	n/a	factory applied - field finished

UFGS Section and Date	UFGS MAY 2012	09 64 29	WOOD STRIP FLOORING 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 13 11 25	Wood Strip Flooring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.2.1/1.2.3	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf - biobased
Flooring Type	UFGS 2.1	n/a	laminated block - slat block - solid block
Flooring Material	UFGS 2.1	n/a	bamboo
Flooring Unit Dimensions	UFGS 2.1	mm x mm	19 x 55 - 26 x 55
Flooring Thickness	UFGS 2.1	mm	Insert Value
Flooring Grade	UFGS 2.1	n/a	FAS
Flooring Finish	UFGS 2.1	n/a	Insert Value

UFGS Section and Date	UFGS MAY 2012	09 64 66	WOOD ATHLETIC FLOORING 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 13 11 17	Wood Athletic Flooring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes

Attribute	Source	Unit	Value
Sustainability	COBie Guide/UFGS 1.3	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf - biobased
Flooring Type	UFGS 2.2.1	n/a	strip flooring
Flooring Material	UFGS 2.2.1	n/a	hard maple - birch - beech
Flooring Thickness	UFGS 2.2.1	mm	Insert Value
Base Material	UFGS 2.2.2	n/a	hard maple - birch - beech - molded rubber
Flooring Grade	UFGS 2.2.1	n/a	First - FAS
Flooring Finish	UFGS 2.2.1	n/a	factory applied - field finished

UFGS Section and Date	UFGS MAY 2012	09 65 00	RESILIENT FLOORING 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 15	Resilient Flooring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.4	n/a	regional - low voc - low toxicity - recycled content - biobased
Flooring Material	UFGS 2.1-2.7	n/a	VCT - sheet vinyl - rubber tile - rubber sheet - solid vinyl - linoleum - linoleum tile - cork
Flooring Type	UFGS 2.1-2.7	n/a	insert value
Flooring Thickness	UFGS 2.1-2.7	mm	Insert Value
Adhesive Type	UFGS 2.14	n/a	Insert Value

UFGS Section and Date	UFGS MAY 2012	09 65 66	RESILIENT ATHLETIC FLOORING 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 19 17	Gymnasium or Dance Flooring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 2.1.4	n/a	regional - low voc - low toxicity - recycled content - biobased
Flooring Material	UFGS 2.1-2.6	n/a	cartpe tile - ruber composition tile - rubber poured in place - sheet rubber composition - urethane poured in place
Flooring Type	UFGS 2.1-2.6	n/a	Insert Value
Flooring Thickness	UFGS 2.1-2.6	mm	Insert Value
Adhesive Type	UFGS 2.8	n/a	Insert Value

UFGS Section and Date	UFGS MAY 2012	09 66 13	PORLAND CEMENT TERRAZZO 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 13 15 11	Portland Cement Terrazzo Flooring
Name	COBie Guide	n/a	Type XX Space#-01

Attribute	Source	Unit	Value
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3	n/a	regional - low voc - low toxicity - recycled content
Portland Cement Type	UFGS 2.1	n/a	type I - type II - type III - type IV - type V - type VI - type VII - type VIII - type IX - type X
Divider Material	UFGS 2.4	n/a	brass - zinc - plastic
Sealer pH	UFGS 2.9	n/a	between 7 and 10
UFGS Section and Date	UFGS MAY 2012	09 66 16	TERRAZZO TILE 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 13 15 13	Precast Terrazzo Flooring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3.2	n/a	regional - low voc - low toxicity - recycled content
Chip Type	UFGS 2.2	n/a	marble - granite
Resin Type	UFGS 2.2	n/a	flexible - rigid
Tile Thickness	UFGS 2.2	mm	5
Flooring Unit Dimensions	UFGS 2.2	mm x mm	300 x 300
Resilient Base Type	UFGS 2.4	n/a	rubber - vinyl
Divider Material	UFGS 2.6	n/a	aluminum
UFGS Section and Date	UFGS MAY 2012	09 66 23	RESINOUS TERRAZZO FLOORING 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 13 15 17	Plastic matrix Terrazzo Flooring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.4.2	n/a	regional - low voc - low toxicity - recycled content
Divider Material	UFGS 2.5	n/a	brass - zinc - plastic
Sealer pH	UFGS 2.7	n/a	between 7 and 10

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	09 67 23.13	STANDARD RESINOUS FLOORING 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 29 13 19	Resinous Flooring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Binder Matrix	UFGS 2.1.2/2.1.3	n/a	Insert Value
Aggregate Type	UFGS 2.1.3	n/a	Insert Value
Sealer Type	UFGS 2.1.4	n/a	aliphatic - polyurethane
UFGS Section and Date	UFGS MAY 2012	09 67 23.14	CHEMICAL RESISTIVE RESINOUS FLOORING 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 29 13 19	Resinous Flooring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3.2	n/a	regional - low voc - low toxicity - recycled content
Aggregate Type	UFGS 2.1.2	n/a	silica sand - quartz - granite
Binder Type	UFGS 2.1.3	n/a	synthetic rubber latex or resin emulsion - thermo-setting epoxy - medium reactive nonthixotropic modified polyester
Top Coating Type	UFGS 2.1.5	n/a	Clear - Colored
Floor System Type	UFGS 2.2	n/a	Latex or Resinous Emulsion Matrix - Epoxy Matrix - Polyester Matrix
UFGS Section and Date	UFGS MAY 2012	09 67 23.15	FUEL RESISTIVE RESINOUS FLOORING, 3-COAT SYSTEM 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 29 13 19	Resinous Flooring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Primer Type	UFGS 2.2.1	n/a	Epoxy Polyamine

Attribute	Source	Unit	Value
Top Coating Type	UFGS 2.2.2	n/a	Urethane
Grit Type	UFGS 2.3	n/a	Aluminum Oxide, Sieve #60
UFGS Section and Date	UFGS MAY 2012	09 67 23.16	FUEL RESISTIVE RESINOUS FLOORING, 5-COAT SYSTEM 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 29 13 19	Resinous Flooring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Primer Type	UFGS 2.2.1	n/a	Epoxy Polyamine
Grout Coating Type	UFGS 2.1.2	n/a	Epoxy Polyamine
Top Coating Type	UFGS 2.2.3	n/a	Urethane
Grit Type	UFGS 2.3	n/a	Aluminum Oxide, Sieve #60
UFGS Section and Date	UFGS MAY 2012	09 68 00	CARPET 05/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 17	Carpet Flooring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - biobased
Static Control	UFGS 2.2	kV	3.5 - 2.0
Radiant Flux	UFGS 2.2	W/cm ²	0.22 - 0.45
Tuft Bind	UFGS 2.1	N	40 - 18
Cushion Type	UFGS 2.1	n/a	Rubberized hair, mothproofed and sterilized - Rubberized jute, mothproofed and sterilized - Synthetic - Resinated, recycled textile
Install Method	UFGS 3.4	n/a	direct glue down - pre-applied adhesive - stretch-in
UFGS Section and Date	UFGS MAY 2012	09 69 13	RIGID GRID ACCESS FLOORING 11/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 23	Rigid Grid Access Flooring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number

Attribute	Source	Unit	Value
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Concentrated Load	UFGS 1.2.2	N	4450 - 5560 - 6670
Live Load	UFGS 1.2.2	kPa	11.97 - 14.36 - 16.76
Impact Load	UFGS 1.2.2	N	670
Rolling Load	UFGS 1.2.2	N	3560 - 4450 - 5340 - 5560 - 6670
Panel Construction	UFGS 2.1.2	n/a	aluminum - Hollow Formed Steel - Metal-Clad Cementitious Fill - Metal-Clad Wood Core - Lightweight Concrete Panels
Floor Covering	UFGS 2.1.3	n/a	High Pressure Laminate - Conductive Surfacing - Conductive High Pressure Laminate - VCT - Carpet
Resilient Base Type	UFGS 2.1.6	n/a	rubber - vinyl
Support System	UFGS 2.2.1/2.2.2	n/a	pedestals - pedestals and stringers

UFGS Section and Date	UFGS MAY 2012	09 69 19	STRINGERLESS ACCESS FLOORING 11/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 17 27	Stringerless Access Flooring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Concentrated Load	UFGS 1.2.2	N	4450 - 5560 - 6670
Live Load	UFGS 1.2.2	kPa	11.97 - 14.36 - 16.76
Impact Load	UFGS 1.2.2	N	670
Rolling Load	UFGS 1.2.2	N	3560 - 4450 - 5340 - 5560 - 6670
Panel Construction	UFGS 2.1.2	n/a	aluminum - Hollow Formed Steel - Metal-Clad Cementitious Fill - Metal-Clad Wood Core - Lightweight Concrete Panels
Floor Covering	UFGS 2.1.3	n/a	High Pressure Laminate - Conductive Surfacing - Conductive High Pressure Laminate - VCT - Carpet
Resilient Base Type	UFGS 2.1.6	n/a	rubber - vinyl
Support System	UFGS 2.2.1/2.2.2	n/a	pedestals

UFGS Section and Date	UFGS MAY 2012	09 72 00	WALL COVERINGS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 15 00	Wall Coverings, Claddings, Linings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3	n/a	regional - low voc - low toxicity - recycled content - biobased
Wallcovering Type	UFGS 2.2	n/a	vinyl - textile - acoustical - dry erase

Attribute	Source	Unit	Value
Wall Liner	UFGS 2.7	n/a	none - non-woven polyester cellulose
UFGS Section and Date	UFGS MAY 2012	09 83 13	ACOUSTICAL WALL TREATMENT 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 15 29	Acoustical Wall Finishes
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf
Panel Width	UFGS 2.1	mm	600 - 750 - 1200 - 1500
Panel Height	UFGS 2.1	mm	2400 - 2700 - 3000
Panel Thickness	UFGS 2.1	mm	Insert Value
Fire Rating	UFGS 2.1	n/a	Class A
Noise Reduction Coefficient Range	UFGS 2.1	NRC	0.50-0.60 - 0.80-0.90
Core Type	UFGS 2.1	n/a	Standard acoustical - High impact acoustical - Acoustical/tackable
Mounting Method	UFGS 2.1	n/a	concealed spline - mechanical fasteners - magnetic fasteners - hook and loop - adhesive mounting
UFGS Section and Date	UFGS MAY 2012	09 90 00	PAINTS AND COATINGS 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 11	Paints and Varnishes
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.4.4/1.9	n/a	regional - low voc - low toxicity - biobased
Gloss Level	UFGS 3.15.1/3.15.2	n/a	G1 - G2 - G3 - G4 - G5 - G6 - G7
Primer Type	UFGS 3.15.1/3.15.2	MPI	Insert Value
Intermediate Coat	UFGS 3.15.1/3.15.2	MPI	Insert Value
Topcoat Type	UFGS 3.15.1/3.15.2	MPI	Insert Value
System Dry Film Thickness	UFGS 3.15.1/3.15.2	mm	Insert Value
UFGS Section and Date	UFGS MAY 2012	09 96 00	HIGH-PERFORMANCE COATINGS 07/07

Attribute	Source	Unit	Value
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 21	High Performance Coatings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Base Coating Type	UFGS 2.1-2.4	n/a	heat-resistant - epoxy - polyurethane - chlorinated rubber
Topcoat Type	UFGS 2.1-2.4	n/a	heat-resistant - epoxy - polyurethane - chlorinated rubber
System Dry Film Thickness	UFGS 2.1-2.4	mm	Insert Value

UFGS Section and Date	UFGS MAY 2012	09 96 59	HIGH-BUILD GLAZE COATINGS 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 21	High Performance Coatings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Primer Type	UFGS 2.1	n/a	Insert Value
Topcoat Type	UFGS 2.1	n/a	Epoxy-polyamide - Epoxy-polyester - Aliphatic or aromatic polyurethane - Two component, epoxy-polyamide - moisture-curing urethane
System Dry Film Thickness	UFGS 2.1	mm	Insert Value
Gloss Level	UFGS 2.1	n/a	G1 - G2 - G3 - G4 - G5 - G6 - G7

UFGS Section and Date	UFGS MAY 2012	09 97 01.00 10	METALLIZING: HYDRAULIC STRUCTURES 05/09
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 17 11	Galvanized Coatings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Metallizing Wire Type	UFGS 2.1	n/a	Insert Value

UFGS Section and Date	UFGS MAY 2012	09 97 02	PAINTING: HYDRAULIC STRUCTURES 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 13	Paints for Particular Applications
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX

Attribute	Source	Unit	Value
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Paint Formula	UFGS 2.1	n/a	V-102e - V-106d - V-766e - V-103C - VZ-108d - C-200a

UFGS Section and Date	UFGS MAY 2012	09 97 13.00 40	STEEL COATINGS 07/07
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 17	Inorganic Metal Treatments
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Sealant Compound	UFGS 2.2	n/a	polysulfide-rubber
Coating System	UFGS 2.3.1	n/a	inorganic zinc - inhibitive polyamide epoxy - aliphatic polyurethane

UFGS Section and Date	UFGS MAY 2012	09 97 13.15	EPOXY/FLUOROPOLYURETHANE INTERIOR COATING OF WELDED STEEL PETROLEUM FUEL TANKS 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 21	High Performance Coatings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Primer Type	UFGS 2.2.2.1	n/a	Epoxy polyamide
Intermediate Coat Type	UFGS 2.2.2.2	n/a	Epoxy polyamide
Topcoat Type	UFGS 2.2.3	n/a	Fluoropolyurethane
System Dry Film Thickness	UFGS 2.2	mm	Insert Value

UFGS Section and Date	UFGS MAY 2012	09 97 13.16	INTERIOR COATING OF WELDED STEEL WATER TANKS 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 21	High Performance Coatings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number

Attribute	Source	Unit	Value
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Coating System	UFGS 2.2	n/a	NSF Certified Polyamide Epoxy - MIL-DTL-24441 Epoxy System
Primer Type	UFGS 2.2.1.1	n/a	Epoxy polyamide Type III - Epoxy polyamide Type IV
Intermediate Coat Type	UFGS 2.2.1.2	n/a	Epoxy polyamide Type III - Epoxy polyamide Type IV
Topcoat Type	UFGS 2.2.2	n/a	Fluoropolyurethane - Epoxy polyamide Type III - Epoxy polyamide Type IV
System Dry Film Thickness	UFGS 2.2	mm	Insert Value
UFGS Section and Date	UFGS MAY 2012	09 97 13.17	THREE COAT EPOXY INTERIOR COATING OF WELDED STEEL PETROLEUM FUEL TANKS 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 21	High Performance Coatings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Primer Type	UFGS 2.2.1.1	n/a	Epoxy polyamide Type IV
Intermediate Coat Type	UFGS 2.2.1.2	n/a	Epoxy polyamide Type IV
Topcoat Type	UFGS 2.2.2	n/a	Epoxy polyamide Type IV
System Dry Film Thickness	UFGS 2.2	mm	Insert Value
UFGS Section and Date	UFGS MAY 2012	09 97 13.25	MAINTENANCE, REPAIR, AND COATING OF TALL ANTENNA TOWERS 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 21	High Performance Coatings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
UFGS Section and Date	UFGS MAY 2012	09 97 13.26	COATING OF STEEL WATERFRONT STRUCTURES 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 21 25	Marine Coatings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes

Attribute	Source	Unit	Value
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Coating System	UFGS 2.1.1	n/a	Epoxy-Polyamide - Coal Tar Epoxy-Polyamide
UFGS Section and Date	UFGS MAY 2012	09 97 13.27	EXTERIOR COATING OF STEEL STRUCTURES 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 21	High Performance Coatings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Primer Type	UFGS 2.2.1	n/a	Epoxy polyamide Type III
Intermediate Coat Type	UFGS 2.2.2	n/a	Epoxy polyamide Type IV
Topcoat Type	UFGS 2.2.3	n/a	Polyurethane Type II
System Dry Film Thickness	UFGS 2.2	mm	Insert Value
UFGS Section and Date	UFGS MAY 2012	09 97 13.28	PROTECTION OF BURIED STEEL PIPING AND STEEL BULKHEAD TIE RODS 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 21	High Performance Coatings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Coating System	UFGS 2.1	n/a	Tape - Adhesive Thermoplastic Resin - Thermosetting Epoxy - Polyethylene-Butyl Adhesive - Mastic
Rock Shield	UFGS 2.1	n/a	yes - no
UFGS Section and Date	UFGS MAY 2012	09 97 23.13	INTERIOR LINING FOR CONCRETE STORAGE TANKS (FOR PETROLEUM FUELS) 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 21	High Performance Coatings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Coating Formulation	UFGS 2.4	n/a	TLL-46 - MIL-PRF-4556 - MIL-PRF-23236

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	09 97 23.16	LINSEED OIL PROTECTION OF CONCRETE SURFACES 11/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 21	High Performance Coatings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Protection Method	UFGS 2.1	n/a	Linseed Oil-Mineral Spirits Compound - Linseed Oil Emulsion
UFGS Section and Date	UFGS MAY 2012	09 97 23	METALLIC TYPE CONDUCTIVE/SPARK RESISTANT CONCRETE FLOOR FINISH 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 21	High Performance Coatings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Admixtures	UFGS 2.1.3	n/a	Type A - Type D - Type F
Grounding Method	UFGS 2.2	n/a	Rods - Studs - Disks
Surfacing Material	UFGS 2.3	n/a	Graded Iron
UFGS Section and Date	UFGS MAY 2012	09 97 30	PREPARATION OF HISTORIC WOOD AND METAL SURFACES FOR PAINTING 05/09
OCCS Table 23 Properties	OCCS MAY 2012	23-15 21 21	High Performance Coatings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Consolidant Type	UFGS 2.1	n/a	Liquid Epoxy - Epoxy Paste
UFGS Section and Date	UFGS MAY 2012	10 10 00	VISUAL COMMUNICATIONS SPECIALTIES 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-19 11 00	Information Display Specialties
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof

Attribute	Source	Unit	Value
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf - biobased
Board Type	UFGS 2.2-2.9	n/a	presentation board - markerboard - tackboard - case - display track - horizontal sliding unit - copyboard - screen
Tackboard Covering	UFGS 2.4	n/a	cork - vinyl - fabric
Board Mounting	UFGS 2.2-2.9	n/a	wall - ceiling - freestanding - recessed
Board Size	UFGS 3.1	mm x mm	Insert Value
Wall Location	UFGS 3.1	n/a	Insert Value
Mounting Height	UFGS 3.1	mm	Insert Value

UFGS Section and Date	UFGS MAY 2012	10 14 01	EXTERIOR SIGNAGE 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-19 11 11	Information Signs
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Sign Type	UFGS 2.1	n/a	Free-Standing Base Mount - Panel And Post - Changeable Letter Directory - Plaque - wall mount
Sign Material	UFGS 2.1/2.4/2.5	n/a	Aluminum - Galvanized Steel - Insert Value
Sign Mounting	UFGS 2.1/2.4/2.5	n/a	Insert Value
Sign Finish	UFGS 2.1/2.4/2.5	n/a	semi-gloss baked enamel - two-component acrylic polyurethane - anodic - organic
Illuminated	UFGS 2.2	n/a	yes - no

UFGS Section and Date	UFGS MAY 2012	10 14 02	INTERIOR SIGNAGE 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-19 11 11	Information Signs
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Sign Type	UFGS 2.2-2.6	n/a	room identification - building directory - plaque - directional wayfinding
Sign Material	UFGS 2.2-2.6	n/a	Aluminum - wood - acrylic - Insert Value
Sign Mounting	UFGS 2.2-2.6	n/a	foam tape - magnetic - fastened - Insert Value - adhesive

Attribute	Source	Unit	Value
Sign Finish	UFGS 2.2-2.6	n/a	semi-gloss baked enamel - two-component acrylic polyurethane - anodic - organic
Illuminated	UFGS 2.2-2.6	n/a	yes - no
UFGS Section and Date	UFGS MAY 2012	10 21 13	TOILET COMPARTMENTS 01/07
OCCS Table 23 Properties	OCCS MAY 2012	23-31 25 11 11	Toilet Partitions
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.2.1	n/a	regional - low voc - low toxicity - recycled content
Component Type		n/a	Partition - Urinal Screen - Privacy Screen - Dressing Compartment - Shower Stall
Component Material	UFGS 2.1	n/a	stainless steel - painted steel - HDPE - laminated plastic - phenolic -
Mounting Method	UFGS 2.3-2.5	n/a	Floor Mounted - overhead braced - ceiling mounted - floor-to-ceiling - wall hung
Hardware Material	UFGS 2.1.5	n/a	stainless steel - zinc - brass - aluminum - cold rolled steel
Hardware Type	UFGS 2.1.5	n/a	hinge - latch - pull - hook - bracket - shoe
UFGS Section and Date	UFGS MAY 2012	10 21 23.16	CUBICLE TRACK AND HARDWARE 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-15 11 15 15 13	Cubicle Track and Hardware
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Mounting Method	UFGS 2.1	n/a	Ceiling - Hanger
UFGS Section and Date	UFGS MAY 2012	10 22 13	WIRE MESH PARTITIONS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 11 15 17 11	Wire Mesh Partitions
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes

Attribute	Source	Unit	Value
Sustainability	COBie Guide/UFGS 1.4	n/a	regional - low voc - low toxicity - recycled content
Partition Type	UFGS 2.2/2.3	n/a	Normal Duty - Heavy Duty
Partition Material	UFGS 2.2/2.3	n/a	steel
Frame Type	UFGS 2.2/2.3	n/a	C-channel - channel - angle
Mesh Gage	UFGS 2.2/2.3	n/a	6 gage - 10 gage
UFGS Section and Date	UFGS MAY 2012	10 22 19	DEMOUNTABLE MOBILE PARTITIONS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 11 13	Demountable Partitions
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.4.2	n/a	energy saving - regional - low voc - low toxicity - recycled content
Fire Rating	UFGS 1.2.1	n/a	Class A
Acoustical Rating	UFGS 1.2.2	STC	36 - 42
Operation	UFGS 2.1	n/a	Manual - Electric
Panel Type	UFGS 2.2.1	n/a	gypsum board - wood composite - Fiber composite - steel-sheet-faced gypsum board - steel-sheet-faced mineral fiber board
Door Type	UFGS 2.2.4	n/a	hollow metal - solid core wood veneered - solid core plastic laminate
Panel Finish	UFGS 2.3	n/a	paint - wallcovering - fabric - laminate - wood veneer - tackable wallboard - markerboard
UFGS Section and Date	UFGS MAY 2012	10 22 26.13	ACCORDION FOLDING PARTITIONS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-15 11 17 15	Accordion Folding Partitions
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3.4	n/a	energy saving - regional - low voc - low toxicity - recycled content
Operation	UFGS 2.1	n/a	Manual bi-parting - Electric bi-parting - Manual one-way - Electric one-way
Partition Covering	UFGS 2.2.3	n/a	Fabric, Type I - Fabric, Type II - Fabric, Type III
Flame Spread	UFGS 2.3.1	n/a	25
Smoke Development	UFGS 2.3.1	n/a	50
Acoustical Rating	UFGS 2.3.1	STC	Insert Value
UFGS Section and Date	UFGS MAY 2012	10 22 26.23	COILING PARTITIONS 08/10

Attribute	Source	Unit	Value
OCCS Table 23 Properties	OCCS MAY 2012	23-15 11 17 17	Coiling Partitions
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.4	n/a	energy saving - regional - low voc - low toxicity - recycled content
Operation	UFGS 2.1	n/a	Manual bi-parting - Electric bi-parting - Manual one-way - Electric one-way
Partition Covering	UFGS 2.2.3	n/a	Fabric, Type I - Fabric, Type II - Fabric, Type III
Flame Spread	UFGS 2.3.1	n/a	25
Smoke Development	UFGS 2.3.1	n/a	50
Acoustical Rating	UFGS 2.3.1	STC	Insert Value

UFGS Section and Date	UFGS MAY 2012	10 22 39	FOLDING PANEL PARTITIONS 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-15 11 17 13	Folding Panel Partitions
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.4	n/a	energy saving - regional - low voc - low toxicity - recycled content
Operation	UFGS 1.2.1/1.2.2	n/a	Manual - Electric
Operation Force	UFGS 1.2.1/1.2.2	N	89 - 17
Flame Spread	UFGS 1.2.3.1	n/a	25
Smoke Development	UFGS 1.2.3.1	n/a	50
Acoustical Rating	UFGS 1.2.3.2	STC	Insert Value
Panel System Type	UFGS 2.2	n/a	paired - single - center folded - omni-directional - continuously hinged
Panel Type	UFGS 2.2.1	n/a	steel skin - reinforced aluminum - particleboard - tackable base
Panel Finish	UFGS 2.2.2	n/a	Polyolefin - Type II Vinyl

UFGS Section and Date	UFGS MAY 2012	10 22 43	SLIDING PARTITIONS 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-15 11 17 11	Horizontally Sliding Partitions
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number

Attribute	Source	Unit	Value
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.4	n/a	energy saving - regional - low voc - low toxicity - recycled content
Operation	UFGS 1.2.1/1.2.2	n/a	Manual - Electric
Operation Force	UFGS 1.2.1/1.2.2	N	89 - 17
Flame Spread	UFGS 1.2.3.1	n/a	25
Smoke Development	UFGS 1.2.3.1	n/a	50
Acoustical Rating	UFGS 1.2.3.2	STC	Insert Value
Panel System Type	UFGS 2.2	n/a	paired - single - omni-directional - continuously hinged
Panel Type	UFGS 2.2.1	n/a	steel skin - reinforced aluminum - particleboard - wood - tackable base
Panel Finish	UFGS 2.2.2	n/a	Polyolefin - Type II Vinyl
UFGS Section and Date	UFGS MAY 2012	10 26 13	WALL AND CORNER GUARDS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-17 25 15 13	Corner Guards
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3	n/a	regional - low voc - low toxicity - recycled content
Component Material	UFGS 2.1.1	n/a	extruded acrylic vinyl - PVC - injection molded thermal plastic - stainless steel
Fire Rating	UFGS 2.1.1.2	n/a	Class 1
Component Type	UFGS 2.2-2.6	n/a	corner guard - wall guard - hand rail - combo hand rail and corner guard - door protector - wall protection
Component Finish	UFGS 2.7	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	10 28 13	TOILET ACCESSORIES 07/06
OCCS Table 23 Properties	OCCS MAY 2012	23-21 43 15 29	Toilet Accessories Dispensers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Finish	UFGS 2.1.2	n/a	Stainless Steel, #4 Brushed - Carbon Steel, Bright Chrome
Component Type	UFGS 2.2	n/a	Insert Value
Capacity	UFGS 2.2	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	10 44 16	FIRE EXTINGUISHERS 05/12
OCCS Table 23 Properties	OCCS MAY 2012	23-29 25 19	Fire Extinguishers

Attribute	Source	Unit	Value
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Capacity	COBie Guide/UFGS 2.3	Kg	Insert Value
Rating	COBIE Guide/UFGS 2.1	n/a	Class A - Class B - Class C - Class D
Extinguisher Type	UFGS 2.1	n/a	Water and Foam - Carbon Dioxide - Dry Chemical - Wet Chemical - Clean Agent - Dry Powder - Water Mist
Component Material	UFGS 2.2	n/a	corrosion-resistant steel - aluminum - enameled steel
Cabinet Material	UFGS 2.3	n/a	corrosion-resistant steel - aluminum - enameled steel
Mounting Method	UFGS 2.5/2.6	n/a	Wall Bracket - Cabinet, Recessed - Cabinet, Surface - Cabinet, Trimless

UFGS Section and Date	UFGS MAY 2012	10 51 13	METAL LOCKERS 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-19 13 11	Metal Lockers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Component Type	UFGS 2.1	n/a	STL - STC - STW - DTL - DTC - DTW
Component Size	UFGS 2.1	n/a	1 - 2 - 3 - 4
Component Material	UFGS 2.2	n/a	Galvanized Steel
Component Finish	UFGS 2.2.1	n/a	Baked enamel

UFGS Section and Date	UFGS MAY 2012	10 56 13	STEEL SHELVING 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-21 11 11 11	Commercial Storage Shelves
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Duty Rating	UFGS 2.1	n/a	medium duty - heavy duty
Capacity	UFGS 2.2.1	Kg	180 - Insert Value

Attribute	Source	Unit	Value
Finish	UFGS 2.2.1	n/a	electrostatically applied enamel
UFGS Section and Date	UFGS MAY 2012	10 71 13.13	STORM SHUTTERS 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-17 21 11 13	Exterior Shutters
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Wind Load	UFGS 1.5	kPa	1 - 1.4 - 2 - 3.8 - 5.5
Component Material	UFGS 2.1	n/a	Aluminum - PVC
Shutter Type	UFGS 2.2	n/a	roll - accordion - hinged louvered - removable
Operation	UFGS 2.2.1	n/a	strap - crank - motor
Finish	UFGS 2.3	n/a	anodic - organic
UFGS Section and Date	UFGS MAY 2012	11 05 40	COMMON WORK RESULTS FOR FOODSERVICE EQUIPMENT 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-21 21 00	Food Service Equipment and Furnishings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Water Inlet	COBie Guide/UFGS 1.2.1	n/a	Insert Value
Drain	COBie Guide/UFGS 1.2.1	n/a	Insert Value
Component Material	UFGS 2.1	n/a	Stainless Steel
Component Finish	UFGS 2.2.1	n/a	No.3 - No.4 - No.4 XL - No.4 XL Buff
UFGS Section and Date	UFGS MAY 2012	11 06 40.13	FOODSERVICE EQUIPMENT SCHEDULE 01/08
OCCS Table 23 Properties	OCCS MAY 2012	23-21 21 00	Food Service Equipment and Furnishings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts

Attribute	Source	Unit	Value
Water Inlet	COBie Guide	n/a	Insert Value
Drain	COBie Guide	n/a	Insert Value
Naval Equipment Symbol	UFGS 2.1.2	n/a	Insert Value
Logical Class	UFGS 2.1.2	n/a	Insert Value
Description	UFGS 2.1.2	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	11 13 10	DOCK LEVELERS 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-23 23 13	Dock Levelers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional - low voc - low toxicity - recycled content
Operation	UFGS 2.2	n/a	Electro-Hydraulic - Mechanical - Air Powered
Height Adjustment Range	UFGS 2.2.2	mm	0 to 1295 - XX to XX
Rated Capacity	UFGS 2.2.6	Kg	9070
Restraining Device	UFGS 2.7.1	n/a	yes - no
Bumpers	UFGS 2.7.2	n/a	yes - no
UFGS Section and Date	UFGS MAY 2012	11 24 27	AIR STRIPPER 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-13 27 11	Cleaning and Maintenance Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Component Type	UFGS 2.2	n/a	pump - blower - connector - mist eliminator - exhaust stack - control - feed system
UFGS Section and Date	UFGS MAY 2012	11 27 13	RADIOGRAPHIC DARKROOM EQUIPMENT 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-21 35 11	Darkroom Equipment and Furnishings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts

Attribute	Source	Unit	Value
Component Category	UFGS 2.2	n/a	Film-Loading Bin - Cassette Transfer Box Cabinet - Illuminator - Processor - Developing Tank
Voltage	UFGS 2.2	n/a	120 - 208 - 220 - 240
Component Type	UFGS 2.1	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	11 31 13	ELECTRIC KITCHEN EQUIPMENT 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-21 21 00	Food Service Equipment and Furnishings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional - low voc - low toxicity
Component Type	UFGS 2.1	n/a	Insert Value
Capacity	UFGS 2.1	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	11 41 11	REFRIGERATED AND FROZEN FOOD STORAGE EQUIPMENT 01/08
OCCS Table 23 Properties	OCCS MAY 2012	23-21 21 27	Commercial Refrigerators And Freezers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Panel Type	UFGS 2.4.1	n/a	Stainless Steel - Aluminum - Fiberglass
Panel Insulation	UFGS 2.4.1	n/a	Foamed in Place polyurethane
Floor Type	UFGS 2.4.2/2.4.3	n/a	Prefabricated Floor - Floorless
Door Count	UFGS 2.4.4	n/a	1 - 2 - Insert Value
UFGS Section and Date	UFGS MAY 2012	11 42 00	FOOD PREPARATION EQUIPMENT 01/08
OCCS Table 23 Properties	OCCS MAY 2012	23-21 21 31	Commercial Food Preparation Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Water Inlet	COBie Guide	n/a	splashback - counter top - ledge

Attribute	Source	Unit	Value
Drain	COBie Guide/UFGS 2.4.3	n/a	Insert Value
Component Type	UFGS 2.2	n/a	Insert Value
Mounting Method	UFGS 2.4.2	n/a	Leg - Wall - Counter
UFGS Section and Date	UFGS MAY 2012	11 44 00	FOOD COOKING EQUIPMENT 01/08
OCCS Table 23 Properties	OCCS MAY 2012	23-21 21 13	Commercial Food Cooking Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Water Inlet	COBie Guide	n/a	Insert Value
Drain	COBie Guide	n/a	Insert Value
Component Category	UFGS 2.1-2.8	n/a	Hood - Oven - Burner - Broiler - Fryer - Griddle - Steam Cooker - Fire Extinguisher
Component Type	UFGS 2.1-2.8	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	11 46 00	FOOD DISPENSING EQUIPMENT 01/08
OCCS Table 23 Properties	OCCS MAY 2012	23-21 21 25	Commercial Food and Beverage Dispensing Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Water Inlet	COBie Guide	n/a	splashback - counter top - ledge
Drain	COBie Guide	n/a	Insert Value
Filter Type	UFGS 2.1	n/a	Cartridge - Integrated - None
Working Pressure	UFGS 2.1.2	kPa	860
Flow Rate	UFGS 2.1.2	L/minute	11.34 - 5.67 - 3.78
Mounting Method	UFGS 2.2.2	n/a	Leg - Wall - Counter
UFGS Section and Date	UFGS MAY 2012	11 47 00	ICE MACHINES 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-21 21 29	Commercial Ice Machines
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number

Attribute	Source	Unit	Value
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Power	COBie Guide	kW	Insert Value
Connection	COBie Guide	n/a	Insert Value
Water Inlet	COBie Guide	n/a	Insert Value
Drain	COBie Guide	n/a	Insert Value
Automatic Cleaning System	UFGS 2.4	n/a	internal - external
UFGS Section and Date	UFGS MAY 2012	11 48 00	CLEANING AND DISPOSAL EQUIPMENT 01/08
OCCS Table 23 Properties	OCCS MAY 2012	23-21 21 21	Commercial Food Disposal Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Component Material	UFGS 2.4-2.11	n/a	Stainless Steel
Component Category	UFGS 2.4-2.11	n/a	Countertop - Pass-Through - Dishwasher - Disposal - Conveyor
Component Type	UFGS 2.4-2.11	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	11 53 00	LABORATORY EQUIPMENT AND FUMEHOODS 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-25 69 00	Medical and Laboratory Fume and Debris Hoods
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - water saving - regional - low voc - low toxicity - recycled content
Component Material	UFGS 2.1	n/a	Aluminum - Carbon Steel - Stainless Steel
Glass Type	UFGS 2.1	n/a	FT, Clear
Unit Type	UFGS 2.2	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	11 68 13	PLAYGROUND EQUIPMENT 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-21 29 17	Playground Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number

Attribute	Source	Unit	Value
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Age Group	UFGS 1.3.3	n/a	Pre-Toddler - toddler - Pre-School - School-Age - Pre-Teen
Protection	UFGS 2.2.4	n/a	Protective Barrier - Guardrail
Component Type	UFGS 2.2.5-2.2.12	n/a	Sand Table - Rotating Swing - Single-Axis Swing - Spring Rocking Equipment - Roof - Sliding Pole - Slide - Enclosure
Component Construction	UFGS 2.2.5-2.2.12	n/a	Wood - Rubber - Steel - Aluminum - HDPE - Galvanized Steel - PVC - Insert Value
UFGS Section and Date	UFGS MAY 2012	11 70 00	GENERAL REQUIREMENTS FOR MEDICAL AND DENTAL EQUIPMENT 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-25 00 00	Medical and Laboratory Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Equipment Type	UFGS 2.2	n/a	Safety - Anesthetizing - Motor - Backflow Prevention
UFGS Section and Date	UFGS MAY 2012	11 71 00	WARMING CABINETS, STERILIZERS, AND ASSOCIATED EQUIPMENT 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-25 57 00	Medical Sterilization Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Component Material	UFGS 2.1	n/a	Carbon Steel - Stainless Steel
Component Category	UFGS 2.5-2.14	n/a	Sterilizer - Aerator - Washer/Sanitizer - Distiller - Warmer
Component Type	UFGS 2.5-2.14	n/a	Insert Value
Component Finish	UFGS 2.15	n/a	manufacturer's standard finish - no. 3 - no. 4
UFGS Section and Date	UFGS MAY 2012	11 72 13	MEDICAL EQUIPMENT, MISCELLANEOUS 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-25 00 00	Medical and Laboratory Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number

Attribute	Source	Unit	Value
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Component Material	UFGS 2.1	n/a	Stainless Steel - Carbon Steel - Aluminum - Laminated Plastic
Component Category	UFGS 2.2	n/a	Specimen Cabinet - Autopsy Table - Narcotic Cabinet - Clock - Dispenser - Medicine Center
Component Type	UFGS 2.2	n/a	Pass-Thru - Tank Type - L-Shaped - Moveable System - Insert Value

UFGS Section and Date	UFGS MAY 2012	11 74 00	DENTAL EQUIPMENT 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-25 17 13	Dental Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Component Material	UFGS 2.1	n/a	Stainless Steel - Carbon Steel - Aluminum
Component Type	UFGS 2.2	n/a	Dust Collector - Air Compressor - Light - Utility Service Center
Voltage	UFGS 2.2	VAC	120 - 208 - 220 - 240
Capacity	UFGS 2.2	n/a	Insert Value

UFGS Section and Date	UFGS MAY 2012	11 82 20	INCINERATORS, GENERAL PURPOSE 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-27 61 00	Incinerators
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Waste Reduction	UFGS 1.3.1	n/a	Retuction to 10% - Reduction to 45%
Emissions	UFGS 1.5.1.1	ppm	Insert Value
Noise Level	UFGS 1.5.2	dBa	85
Unit Type	UFGS 2.3.1	n/a	0 - 1 - 2 - 3 - 5
Heat Released	UFGS 2.3.3	W/m ²	Insert Value
Gas Velocity	UFGS 2.3.3	m/second	Insert Value
Operating Temperature	UFGS 2.3.3	degrees C	704 to 871

UFGS Section and Date	UFGS MAY 2012	11 82 21	MEDICAL WASTE INCINERATORS 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-25 69 13 17 17	Laboratory Incinerators
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX

Attribute	Source	Unit	Value
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Noise Level	UFGS 2.1.5	dBa	Insert Value
Waste Reduction	UFGS 2.4	n/a	Retuction to 10% - Reduction to 45%
Emissions	UFGS 2.4	ppm	Insert Value
Unit Type	UFGS 2.4	n/a	0 - 1 - 2 - 3 - 4 - 5
Capacity	UFGS 2.4	kg/hour	Insert Value
Heat Released	UFGS 2.4	W/m2	Insert Value
Gas Velocity	UFGS 2.4	m/second	Insert Value
Operating Temperature	UFGS 2.4	degrees C	704 to 871

UFGS Section and Date	UFGS MAY 2012	12 21 00	WINDOW BLINDS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-17 21 13 11	Window Blinds
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.4	n/a	regional - low voc - low toxicity - recycled content
Component Type	UFGS 2.1	n/a	Horizontal - Vertical
Slat Size	UFGS 2.1	mm	25 - 50 - 90
Mounting Method	UFGS 2.1	n/a	Inside - Outside - Ceiling - Wall
Color	UFGS 2.2	n/a	Insert Value

UFGS Section and Date	UFGS MAY 2012	12 22 00	CURTAINS AND DRAPES 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-17 21 13 13	Curtains and Drapes
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.5	n/a	energy saving - regional - low voc - low toxicity - recycled content
Fabric Weight	UFGS 2.1.1	kg/m2	Insert Value
Pattern	UFGS 2.1.1	n/a	Printed - Woven
Weave	UFGS 2.1.1	n/a	Open - Semi Open
Texture	UFGS 2.1.1	n/a	Burlap - Smooth - Twill

Attribute	Source	Unit	Value
Color	UFGS 2.1.1	n/a	Insert Value
Shading Coefficient	UFGS 2.1.1	n/a	Insert Value
Lining	UFGS 2.1.1	n/a	Insulated - soft blackout
Flame Resistance	UFGS 2.1.1	n/a	small scale - large scale - small and large scale
Heading	UFGS 2.1.3	n/a	Hooks - Snap-Tape
Operation	UFGS 2.1.4	n/a	Stationary - Traverse, Manual - Traverse, Motorized
Actuation	UFGS 2.1.4	n/a	One-Way Draw - Two-Way Draw
UFGS Section and Date	UFGS MAY 2012	12 24 13	ROLLER WINDOW SHADES 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-17 21 13 17 13	Roller Shades
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.4.5/1.4.6	n/a	energy saving - regional - low voc - low toxicity - recycled content
Shade Type	UFGS 2.1	n/a	Light Filtering - Room Darkening
Flame Resistance	UFGS 2.1	n/a	small scale
Operation	UFGS 2.1	n/a	Manual - Motorized
Color	UFGS 2.2	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	12 31 00	MANUFACTURED METAL CASEWORK 05/09
OCCS Table 23 Properties	OCCS MAY 2012	23-21 19 11 11	Metal Modular General Casing
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Material	UFGS 2.2	n/a	Type 302 Steel - Type 304 Steel - Type 316 Steel
Material Thickness	UFGS 2.3	mm	0.85
Component Type	UFGS 2.3	n/a	Wall Cabinet - Base Cabinet - Tall Cabinet - Shelf - Filler
Cabinet Type	UFGS 2.3.4	n/a	1 Door - 2 Door - Door and Drawer - Insert Value
Cabinet Finish	UFGS 2.7	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	12 32 00	MANUFACTURED WOOD CASEWORK 05/09
OCCS Table 23 Properties	OCCS MAY 2012	23-21 19 11 13	Wood Modular General Casing
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX

Attribute	Source	Unit	Value
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf
Material	UFGS 2.3-2.7	n/a	Wood - Particle Board - Plywood - Melamine - Laminate
Material Thickness	UFGS 2.3-2.7	mm	Insert Value
Component Type	UFGS 2.3-2.7	n/a	Wall Cabinet - Base Cabinet - Tall Cabinet - Shelf - Filler
Cabinet Type	UFGS 2.3-2.7	n/a	1 Door - 2 Door - Door and Drawer - Insert Value
Cabinet Finish	UFGS 2.11	n/a	Factory finish - Field Finish

UFGS Section and Date	UFGS MAY 2012	12 34 00	MANUFACTURED PLASTIC CASEWORK 05/10
OCCS Table 23 Properties	OCCS MAY 2012	23-21 19 11 15	Plastic Modular General Casework
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity
Material	UFGS 2.2	n/a	Plastic Laminate, Type XX, Grade XX, class XX, Finish XX
Material Thickness	UFGS 2.2	mm	Insert Value
Component Type	UFGS 2.3-2.5	n/a	Wall Cabinet - Base Cabinet - Tall Cabinet - Shelf - Filler
Cabinet Type	UFGS 2.3-2.5	n/a	1 Door - 2 Door - Door and Drawer - Insert Value

UFGS Section and Date	UFGS MAY 2012	12 35 20	FOODSERVICE CASEWORK, COUNTERTOPS, AND ACCESSORIES 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-21 19 15 29	Commercial Kitchen Specialty Casework
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.6	n/a	regional - low voc - low toxicity - recycled content
Component Category	UFGS 2.1-2.5	n/a	Counter - Tray Slide - Protection Glass - Food Shield - Drip Gutter
Component Type	UFGS 2.1-2.5	n/a	Insert Value
Material	UFGS 2.1-2.5	n/a	Stainless Steel - Glass - Acrylic - Insert Value
Material Thickness	UFGS 2.1-2.5	mm	Insert Value

UFGS Section and Date	UFGS MAY 2012	12 35 70	MEDICAL AND DENTAL CASEWORK 08/10
-----------------------	---------------	----------	-----------------------------------

Attribute	Source	Unit	Value
OCCS Table 23 Properties	OCCS MAY 2012	23-21 19 15 15	Medical Specialty Casework
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.3	n/a	regional - low voc - low toxicity - recycled content
Component Category	UFGS 2.1	n/a	Medical - Dental - Prohetics - Countertop
Component Type	UFGS 2.1	n/a	Insert Value
Material	UFGS 2.1	n/a	baked enamel carbon steel - corrosion resisting steel - wood core covered with laminated plastic - carbon steel covered with laminated plastic
Material Thickness	UFGS 2.1	mm	Insert Value

UFGS Section and Date	UFGS MAY 2012	12 36 00.00 20	MANUFACTURED VANITIES 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-21 21 35	Commercial Serving Counters
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf
Vanity Type	UFGS 2.1	n/a	Single - Double
Material	UFGS 2.1	n/a	plywood
Material Thickness	UFGS 2.3	mm	20
Vanity Width	UFGS 2.1	mm	750 - 900 - 1050 - 1200 - 1500
Finish	UFGS 2.2	n/a	Insert Value
Drawer Count	UFGS 2.4	n/a	0 - 1 - 2 - 3 - 4 - 5 - 6

UFGS Section and Date	UFGS MAY 2012	12 36 00	COUNTERTOPS 05/09
OCCS Table 23 Properties	OCCS MAY 2012	23-21 21 35	Commercial Serving Counters
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf
Component Type	UFGS 2.3	n/a	Countertop - Backsplash

Attribute	Source	Unit	Value
Component Material	UFGS 2.3	n/a	plywood - wood - particle board - Granite - Marble - Synthetic resin - Stainless steel - Tile - FRP
Material Thickness	UFGS 2.3	mm	Insert Value
Surfacing	UFGS 2.4	n/a	plastic laminate - corrosion-resistant steel - corrosion-resistant steel without backing
Finish	UFGS 2.4	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	12 48 13.13	ENTRANCE FLOOR MATS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-21 29 15 31	Floor Mats
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content
Mat Type	UFGS 2.2	n/a	Resilient Link - Rubber - Vinyl - Cocoa - Recycled Rubber Tire - Carpet - Loop Filament - Nylon
Mat Usage	UFGS 2.2	n/a	Entrance - Floor
Mat Thickness	UFGS 2.2	mm	Insert Value
UFGS Section and Date	UFGS MAY 2012	12 50 00	FURNITURE SYSTEMS 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-21 11 00	Commercial Furniture
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf
GFCI	COBie Guide/UFGS 2.9	n/a	Insert Value
Construction Type	UFGS 2.1	n/a	Metal - Composite Wood - Fiberboard - Plastic - Refurbished - Fabric - Linoleum
Furniture System Type	UFGS 2.2	n/a	Panel - Spline Wall - Desk Based
Component Type	UFGS 2.2-2.6	n/a	Wall Component - Desk Component - Work Surface - Storage - Accessory
Capacity	UFGS 2.5	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	12 55 00	DETENTION FURNITURE AND ACCESSORIES 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-21 35 23 15	Detention Furniture
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name

Attribute	Source	Unit	Value
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.2.5	n/a	insert reqts
Material	UFGS 2.1	n/a	Steel Plate
Component Category	UFGS 2.2-2.10	n/a	Mirror - Pass window - Grab Bar - Pistol Locker - Hook - Cabinet - Bunk - Table - Seating
Component Type	UFGS 2.2-2.10	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	12 65 00	FIXED SEATING 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-21 25 11 11 11	Fixed Audience Seating
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	regional - low voc - low toxicity - recycled content - certified wood - nauf
Upholstery Material	UFGS 2.1	n/a	polypropylene - polyester - nylon
Upholstery Weave	UFGS 2.1	n/a	Plain - Decorative
Standard Material	UFGS 2.2	n/a	Steel - Cast Iron
Inner Panel Material	UFGS 2.2	n/a	steel - wood - polypropylene - upholstered
Back Material	UFGS 2.2	n/a	steel - wood - polypropylene - upholstered
Armrest Type	UFGS 2.2	n/a	Common - Tablet - Cupholder
UFGS Section and Date	UFGS MAY 2012	12 93 00	SITE FURNISHINGS 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-11 29 00	Site Furnishings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Material	UFGS 2.1	n/a	Insert Value
Construction	UFGS 2.5	n/a	Wood - Metal - Concrete
Component Type	UFGS 2.5	n/a	Bench - Chair - Bicycle Rack - Bollard - Planter - Water Receptacle - Shelter - Table - Tree Grate
UFGS Section and Date	UFGS MAY 2012	13 17 43	HYDROTHERAPY EQUIPMENT 02/11

Attribute	Source	Unit	Value
OCCS Table 23 Properties	OCCS MAY 2012	23-25 29 11 11 11	Hydrotherapy Bath
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Material	UFGS 2.1	n/a	Stainless Steel - Aluminum
Component Category	UFGS 2.3	n/a	Bath - Whirlpool Bath
Component Type	UFGS 2.3	n/a	Arm Treatment - Leg Treatment - Sitting - Burn Treatment - Hydrotherapy
Temperature Range	UFGS 2.3.6	degrees C	21 and 43
Flow Rate	UFGS 2.1	l/minute	38
UFGS Section and Date	UFGS MAY 2012	13 21 26	COLD-STORAGE ROOMS (PREFABRICATED PANEL TYPE) 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-19 31 19 13 11	Cold Storage Rooms
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Room Type	UFGS 2.1	n/a	Insert Value
Room Size	UFGS 2.1	n/a	Insert Value
Room Style	UFGS 2.1	n/a	Insert Value
Door Type	UFGS 2.1	n/a	Swing - Sliding
Refrigeration System	UFGS 2.1	n/a	Remote - Self Contained
UFGS Section and Date	UFGS MAY 2012	13 21 48	PREFABRICATED AUDIOMETRIC ROOMS 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-19 31 15	Special Purpose Rooms
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Noise Reduction	UFGS 1.3.1	dB	24 to 55
Sound Absorption	UFGS 1.3.1	NRC	0.95

Attribute	Source	Unit	Value
Interior Noise Level	UFGS 1.3.1	dB	21.5 to 41
Construction	UFGS 2.2	n/a	Single Wall - Double Wall
Component Type	UFGS 2.5	n/a	M-2050 Room - M-0300 Booth
UFGS Section and Date	UFGS MAY 2012	13 27 54.00 10	ELECTROMAGNETIC (EM) SHIELDING 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-19 31 19 19 11	Electromagnetic Shielded Rooms
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Construction	UFGS 2.1	n/a	Bolted - Welded
Component Type	UFGS 2.1 - 2.6	n/a	Shielding Enclosure - Door - Filter - Surge Arrestor
Electromatic Attenuation	UFGS 2.2	dB at kHz	Insert Value
Electric Field Attenuation	UFGS 2.2	dB at kHz	Insert Value
Plane Wave Attenuation	UFGS 2.2	dB at kHz	Insert Value
Filter Rating	UFGS 2.6	n/a	XX Volts at XX Hz
UFGS Section and Date	UFGS MAY 2012	13 34 19	METAL BUILDING SYSTEMS 11/11
OCCS Table 23 Properties	OCCS MAY 2012	23-19 29 11	Pre Engineered Structures
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Design Load	UFGS 1.2	N/m2	Insert Value
Live Load	UFGS 1.2	N/m2	Insert Value
Snow Load	UFGS 1.2	N/m2	Insert Value
Wind Load	UFGS 1.2	N/m2	Insert Value
Thermal Resistance	UFGS 1.2	R	Insert Value
U Value	UFGS 1.2	n/a	Insert Value
Air Infiltration	UFGS 1.2	L/s per sq. m	Insert Value
Water Penetration	UFGS 1.2	n/a	none at 137 Pa
Wind Uplift Resistance Class	UFGS 1.2	n/a	30 - 60 - 90
Frame Type	UFGS 1.4	n/a	Rigid Clear Span - Rigid Modular - Truss-Frame Clear Span - Truss-Frame Modular - Long Bay - Lean-To
Roof Type	UFGS 1.4	n/a	vertical-rib, standing-seam - trapezoidal-rib standing-seam - metal roof panels
Panel Type	UFGS 2.4	n/a	Roof - Wall - Liner

Attribute	Source	Unit	Value
Panel Material	UFGS 2.4	n/a	Aluminum - Steel
Panel Thickness	UFGS 2.4	mm	Insert Value
Panel Insulation Type	UFGS 2.4	n/a	Foamed-in-Place - Board - None
Finish	UFGS 2.10	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	13 48 00.00 10	SEISMIC PROTECTION FOR MECHANICAL EQUIPMENT 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-19 29 19 11	Sound, Vibration and Seismic Control Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Horizontal Lateral Force Resistance	UFGS 1.3.1	n/a	insert reqts
Component Type	UFGS 2.1-2.5	n/a	Flexible Ball Joint - Flexible Mechanical Joint - Manufactured Ball Joint - Sway Brace
UFGS Section and Date	UFGS MAY 2012	13 48 00	SEISMIC PROTECTION FOR MISCELLANEOUS EQUIPMENT 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-19 29 19 11	Sound, Vibration and Seismic Control Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts
Horizontal Lateral Force Resistance	UFGS 1.3.1	n/a	insert reqts
UFGS Section and Date	UFGS MAY 2012	13 49 19	X-RAY SHIELDING 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-25 63 11 13 11	X Ray Protective Screens
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	insert reqts

Attribute	Source	Unit	Value
Component Type	UFGS 2.3-2.14	n/a	Lead Sheet - Lead Lined CMU - Lead Lined Wood Panel - Lead Lined Lath - Lead Lined Gypsum Wallboard - Lead Lined Door - Window - Screen
Lead Thickness	UFGS 2.3-2.14	n/a	Insert Value
Total Lead Equivalent Protection	UFGS 2.3-2.14	n/a	Insert Value
UFGS Section and Date	UFGS MAY 2012	14 21 00.00 20	ELECTRIC TRACTION ELEVATORS 05/12
OCCS Table 23 Properties	OCCS MAY 2012	23-23 11 11 11	Traction Elevators
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional - low voc - low toxicity - recycled content - certified wood - nauf
Elevator Service	UFGS 2.1.1/2.1.2	n/a	passenger - freight class a - freight class b - freight class c
Elevator Type	UFGS 2.1.1/2.1.2	n/a	geared - gearless
Rated Load	UFGS 2.1.1/2.1.2	kg (lb)	953 kg (2100 lb) - 1135 kg (2500 lb) - 1589 kg (3500 lb) - 1816 kg (4000 lb) - 2270 kg (5000 lb)
Rated Speed	UFGS 2.1.1/2.1.2	mps (fpm)	0.38 mps (75 fpm) - 0.51 mps (100 fpm) - 0.64 mps (125 fpm) - 0.76 mps (150 fpm) - 1.0 mps (200 fpm)
Travel Length	UFGS 2.1.1/2.1.2	m (ft)	insert value
Number of Stops	UFGS 2.1.1/2.1.2	n/a	insert value
Number of Hoist Way Openings Front	UFGS 2.1.1/2.1.2	n/a	insert value
Number of Hoist Way Openings Rear	UFGS 2.1.1/2.1.2	n/a	insert value
Car Door Type	UFGS 2.1.1/2.1.2	n/a	single-speed side slide door - single-speed center opening door - two-speed side slide door - two-speed center opening door - vertical rising gate
Cab Enclosure Floor Finish	UFGS 2.1.1/2.1.2	n/a	carpet - vinyl composition tile - vinyl sheet tile - diamond plate
Cab Enclosure Wall Finish	UFGS 2.1.1/2.1.2	n/a	prefinished steel panels - laminated plastic on particleboard - stainless steel
Cab Enclosure Door Finish	UFGS 2.1.1/2.1.2	n/a	prefinished steel - stainless steel
Cab Enclosure Ceiling	UFGS 2.1.1/2.1.2	n/a	supported - prefabricated steel panels - anodized aluminum - eggcrate
Elevator Operation	UFGS 2.2.7	n/a	single two-stop automatic - selective collective automatic - duplex selective collective automatic - group automatic
UFGS Section and Date	UFGS MAY 2012	14 21 13	ELECTRIC TRACTION FREIGHT ELEVATORS 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-23 11 11 11	Freight Traction Elevators
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof

Attribute	Source	Unit	Value
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional - low voc - low toxicity - recycled content
Elevator Service	UFGS 2.1.1	n/a	freight class a - freight class b - freight class c
Elevator Type	UFGS 2.1.1	n/a	geared - gearless
Rated Load	UFGS 2.1.1	kg (lb)	insert value
Rated Speed	UFGS 2.1.1	mps (fpm)	insert value
Travel Length	UFGS 2.1.1	m (ft)	insert value
Number of Stops	UFGS 2.1.1	n/a	insert value
Number of Hoist Way Openings Front	UFGS 2.1.1	n/a	insert value
Number of Hoist Way Openings Rear	UFGS 2.1.1	n/a	insert value
Car Door Type	UFGS 2.1.1	n/a	single-speed side slide door - single-speed center opening door - two-speed side slide door - two-speed center opening door - vertical rising gate
Cab Enclosure Floor Finish	UFGS 2.1.1	n/a	carpet - vinyl composition tile - vinyl sheet tile - diamond plate
Cab Enclosure Wall Finish	UFGS 2.1.1	n/a	prefinished steel panels - laminated plastic on particleboard - stainless steel
Cab Enclosure Door Finish	UFGS 2.1.1	n/a	prefinished steel - stainless steel
Cab Enclosure Ceiling	UFGS 2.1.1	n/a	supported - prefinished steel panels - anodized aluminum
Elevator Operation	UFGS 2.9.2	n/a	semi-selective - full-selective

UFGS Section and Date	UFGS MAY 2012	14 21 23	ELECTRIC TRACTION PASSENGER ELEVATORS 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-23 11 11 11 13	Passenger Traction Elevators
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional - low voc - low toxicity - recycled content - certified wood - nauf
Elevator Service	UFGS 2.1.1	n/a	passenger
Elevator Type	UFGS 2.1.1	n/a	geared - gearless
Rated Load	UFGS 2.1.1	kg (lb)	insert value
Rated Speed	UFGS 2.1.1	mps (fpm)	insert value
Travel Length	UFGS 2.1.1	m (ft)	insert value
Number of Stops	UFGS 2.1.1	n/a	insert value
Number of Hoist Way Openings Front	UFGS 2.1.1	n/a	insert value
Number of Hoist Way Openings Rear	UFGS 2.1.1	n/a	insert value
Car Door Type	UFGS 2.1.1	n/a	single-speed side slide door - single-speed center opening door - two-speed side slide door - two-speed center opening door

Attribute	Source	Unit	Value
Cab Enclosure Floor Finish	UFGS 2.1.1	n/a	carpet - vinyl composition tile - vinyl sheet tile - diamond plate
Cab Enclosure Wall Finish	UFGS 2.1.1	n/a	prefinished steel panels - laminated plastic on particleboard - stainless steel
Cab Enclosure Door Finish	UFGS 2.1.1	n/a	prefinished steel - stainless steel
Cab Enclosure Ceiling	UFGS 2.1.1	n/a	supported - prefinished steel panels - anodized aluminum - eggcrate
Elevator Operation	UFGS 2.2.7	n/a	single two-stop automatic - selective collective automatic - duplex selective collective automatic - group automatic

UFGS Section and Date	UFGS MAY 2012	14 24 00	HYDRAULIC ELEVATORS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-23 11 11 13	Hydraulic Elevators
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional - low voc - low toxicity - recycled content - certified wood - nauf - biobased
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
SCR HP Rating	COBie Guide	HP	insert value
MG Motor Power	COBie Guide	KW	insert value
Starting Amps	COBie Guide	Amps	insert value
Accelerating Amps	COBie Guide	Amps	insert value
Machine Room Heat Load	COBie Guide	K Cal/hr	insert value
Elevator Service	UFGS 2.1/2.2	n/a	passenger - freight class a - freight class b - freight class c
Elevator Operation	UFGS 2.3.7	n/a	single two-stop automatic - selective collective automatic - duplex selective collective automatic - group automatic
Rated Load	UFGS 2.1.1/2.2.1	kg (lb)	953 kg (2100 lb) - 1135 kg (2500 lb) - 1589 kg (3500 lb) - 1816 kg (4000 lb) - 2270 kg (5000 lb)
Rated Speed	UFGS 2.1.1/2.2.1	mps (fpm)	0.38 mps (75 fpm) - 0.51 mps (100 fpm) - 0.64 mps (125 fpm) - 0.76 mps (150 fpm) - 1.0 mps (200 fpm)
Travel Length	UFGS 2.1.1/2.2.1	m (ft)	insert value
Number of Stops	UFGS 2.1.1/2.2.1	n/a	insert value
Number of Hoist Way Openings Front	UFGS 2.1.1/2.2.1	n/a	insert value
Number of Hoist Way Openings Rear	UFGS 2.1.1/2.2.1	n/a	insert value
Car Door Type	UFGS 2.1.1/2.2.2	n/a	single-speed side slide - single-speed center opening - two-speed side slide - two-speed center opening - vertical bi-parting
Cab Enclosure Floor Finish	UFGS 2.1.1/2.2.2	n/a	carpet - vinyl composition tile - vinyl sheet tile - diamond plate
Cab Enclosure Wall Finish	UFGS 2.1.1/2.2.2	n/a	prefinished steel panels - laminated plastic on particleboard - stainless steel
Cab Enclosure Ceiling	UFGS 2.1.1/2.2.2	n/a	supported - prefinished steel panels - anodized aluminum - eggcrate

Attribute	Source	Unit	Value
Cab Enclosure Door Finish	UFGS 2.1.2/2.2.2	n/a	prefinished steel - stainless steel
Elevator Operation	UFGS 2.3.7	n/a	single two-stop automatic - selective collective automatic - duplex selective collective automatic - group automatic

UFGS Section and Date	UFGS MAY 2012	14 92 00	PNEUMATIC-TUBE SYSTEM 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-23 17 15 25	Pneumatic Conveyors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional - low voc - low toxicity - recycled content
Tubing Diameter	UFGS 2.2	mm (in)	152.4 (6) - 101.6 (4)

UFGS Section and Date	UFGS MAY 2012	21 12 00	STANDPIPE SYSTEMS 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 11	Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	water saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	manual dry class I standpipe system – combination standpipe system – automatic standpipe system – wet class 1 standpipe system
Residual Pressure at Discharge	UFGS 1.4.1	kPa (psig)	448.2 kPa (65 psig) – 689.5 kPa (100 psig)
Aboveground Piping Materials	UFGS 2.1	n/a	steel
Buried Piping Systems	UFGS 2.2	n/a	outside-coated cement-lined ductile iron

UFGS Section and Date	UFGS MAY 2012	21 13 00.00 40	FIRE-SUPPRESSION SPRINKLER SYSTEMS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 11	Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes

Attribute	Source	Unit	Value
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving – water saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	fire-suppression sprinkler system
Underground Piping Materials	UFGS 2.2	n/a	cast-iron water pipe – ductile-iron wire pipe
Aboveground Piping Materials	UFGS 2.3	n/a	black carbon steel – galvanized carbon steel
Fire Department Connections	UFGS 2.5	n/a	wall siamese – sidewalk siamese - wall hydrant - roof manifold - fire hydrants
Riser Alarm Equipment	UFGS 2.6	n/a	wet-pipe check valve – standard check valve – dry-pipe check valve – water-flow device
Dry-Pipe Maintenance Air	UFGS 2.7	n/a	independent source – continuous source
Sprinkler Heads	UFGS 2.9	n/a	upright – pendant - sidewall

UFGS Section and Date	UFGS MAY 2012	21 13 13.00 10	WET PIPE SPRINKLER SYSTEM, FIRE PROTECTION 05/09
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 11	Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving – water saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	wet pipe sprinkler system
Hydraulic Design Discharge Density	UFGS 1.2.1	L/min/sq.m (gpm/sf)	insert value
Underground Piping Components	UFGS 2.4	n/a	ductile iron piping and fittings
Aboveground Piping Components	UFGS 2.5	n/a	black steel – galvanized steel – copper – plastic
Sprinklers	UFGS 2.10	n/a	concealed – recessed – flush – pendant – upright - sidewall

UFGS Section and Date	UFGS MAY 2012	21 13 13.00 20	WET PIPE SPRINKLER SYSTEM, FIRE PROTECTION 04/08
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 11	Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value

Attribute	Source	Unit	Value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - water saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	automatic wet pipe fire extinguishing sprinkler system
Density of Application of Water	UFGS 1.3.3	L/min/sq.m (gpm/sf)	insert value
Underground Piping Components	UFGS 2.1	n/a	insert value
Aboveground Piping Components	UFGS 2.2	n/a	black steel - galvanized steel - cpvc plastic

UFGS Section and Date	UFGS MAY 2012	21 13 16.00 20	DRY-PIPE FIRE SPRINKLER SYSTEMS 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 11	Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - water saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	automatic dry pipe fire extinguishing sprinkler system
Density of Application of Water	UFGS 1.3.3	L/min/sq.m (gpm/sf)	insert value
Aboveground Piping Systems	UFGS 2.1	n/a	steel
Buried Water Piping Systems	UFGS 2.2	n/a	outside-coated, cement-mortar-lined ductile-iron

UFGS Section and Date	UFGS MAY 2012	21 13 17.00 10	DRY PIPE SPRINKLER SYSTEM, FIRE PROTECTION 05/09
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 11	Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - water saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	dry pipe sprinkler system

Attribute	Source	Unit	Value
Density of Application of Water	UFGS 1.2.1	L/min/sq.m (gpm/sf)	insert value
Underground Piping Components	UFGS 2.4	n/a	ductile iron with cement mortar lining
Aboveground Piping Components	UFGS 2.5	n/a	black steel – galvanized steel
Sprinklers	UFGS 2.11	n/a	pendant – upright – corrosion resistant
UFGS Section and Date	UFGS MAY 2012	21 13 18.00 10	PREACTION AND DELUGE SPRINKLER SYSTEMS, FIRE PROTECTION 05/09
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 11	Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - water saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	praction sprinkler system – deluge sprinkler system
Density of Application of Water	UFGS 1.2.1	L/min/sq.m (gpm/sf)	insert value
Underground Piping Systems	UFGS 2.4	n/a	ductile iron with cement mortar lining
Aboveground Piping Components	UFGS 2.5	n/a	black steel – galvanized steel
Sprinklers	UFGS 2.10	n/a	pendant – upright – corrosion resistant
UFGS Section and Date	UFGS MAY 2012	21 13 19.00 20	[DELUGE] [PREACTION] FIRE SPRINKLER SYSTEMS 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 11	Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - water saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	automatic deluge fire extinguishing sprinkler system – automatic praction fire extinguishing sprinkler system
Density of Application of Water	UFGS 1.3.3	L/min/sq.m (gpm/sf)	insert value
Aboveground Piping Systems	UFGS 2.1	n/a	steel

Attribute	Source	Unit	Value
Buried Water Piping Systems	UFGS 2.2	n/a	outside-coated cement-mortar-lined ductile-iron
UFGS Section and Date	UFGS MAY 2012	21 13 20.00 20	FOAM FIRE EXTINGUISHING FOR AIRCRAFT HANGARS 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 13	Non Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3.1	n/a	aqueous film forming foam deluge sprinkler system – aqueous film forming foam pre-action sprinkler system
Solution Application Density	UFGS 2.1.5	mL/sec/sq.m (gpm/sf)	110 mL/sec/sq.m (0.16 gpm/sf)
Sprinkler System Design	UFGS 1.3.1	n/a	deluge aqueous film forming foam – pre-action aqueous film forming foam
Aboveground Piping Systems	UFGS 2.19	n/a	steel
Buried Piping Systems	UFGS 2.20	n/a	outside-coated cement-mortar-lined ductile-iron
UFGS Section and Date	UFGS MAY 2012	21 13 21.00 20	FOAM FIRE EXTINGUISHING FOR FUEL TANK PROTECTION 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 13	Non Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3.1	n/a	aqueous film forming foam fuel tank protection system
Solution Application Density	UFGS 2.1.4	mL/sec/sq.m (gpm/sf)	insert value
Aboveground Piping Systems	UFGS 2.18	n/a	steel
Buried Piping Systems	UFGS 2.19	n/a	outside-coated cement-mortar-lined ductile-iron

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	21 13 22.00 20	FOAM FIRE EXTINGUISHING FOR HAZ/FLAM MATERIAL FACILITY 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 13	Non Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	foam pre-action sprinkler system – foam dry-pipe sprinkler system – foam deluge sprinkler system
Solution Application Density	UFGS 2.1.6	ml/sec/sq.m (gpm/sf)	insert value
Aboveground Piping Systems	UFGS 2.19	n/a	steel
Buried Piping Systems	UFGS 2.20	n/a	outside-coated cement-mortar-lined ductile-iron
UFGS Section and Date	UFGS MAY 2012	21 13 24.00 10	AQUEOUS FILM-FORMING FOAM (AFFF) FIRE PROTECTION SYSTEM 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 13	Non Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	wet-pipe foam-water fire protection system – preaction foam-water fire protection system – deluge foam-water fire protection system
Fire Protection System	UFGS 1.2	n/a	wet-pipe foam-water – preaction foam-water – deluge foam-water
Underground Piping Systems	UFGS 2.5	n/a	outside-coated cement-mortar-lined ductile-iron
Aboveground Piping Systems for Solution	UFGS 2.6	n/a	steel
Aboveground Piping Systems for Concentrate	UFGS 2.7	n/a	stainless steel

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	21 13 26.00 40	DELUGE FIRE-SUPPRESSION SPRINKLER SYSTEMS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 11	Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - water saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.4	n/a	open-head fire extinguishing sprinkler system – pre-action fire extinguishing sprinkler system
Density of Application of Water	UFGS 2.2.5	L/min/sq.m (gpm/sf)	insert value
Detection Systems	UFGS 2.3	n/a	spot heat detection – smoke detection
Aboveground Piping Systems	UFGS 2.6	n/a	carbon steel
Buried Piping Systems	UFGS 2.7	n/a	outside-coated cement-mortar-lined ductile-iron
UFGS Section and Date	UFGS MAY 2012	21 21 00.00 40	CARBON-DIOXIDE FIRE-EXTINGUISHING SYSTEMS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 13	Non Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2.1	n/a	high-pressure carbon dioxide total flooding system
Piping	UFGS 2.2.1	n/a	galvanized ferrous piping
UFGS Section and Date	UFGS MAY 2012	21 21 00	FIRE EXTINGUISHING SPRINKLER SYSTEMS (RESIDENTIAL) 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 11	Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof

Attribute	Source	Unit	Value
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - water saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	automatic wet pipe fire extinguishing sprinkler system
Aboveground Piping Systems	UFGS 2.1	n/a	steel
Buried Water Piping Systems	UFGS 2.2	n/a	polyvinylchloride
UFGS Section and Date	UFGS MAY 2012	21 21 01.00 20	CARBON DIOXIDE FIRE EXTINGUISHING (HIGH PRESSURE) 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 13	Non Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	high-pressure carbon dioxide hose reel extinguishing system - high-pressure carbon dioxide underfloor flooding extinguishing system
Piping	UFGS 2.2	n/a	steel
UFGS Section and Date	UFGS MAY 2012	21 21 02.00 20	CARBON DIOXIDE FIRE EXTINGUISHING (LOW PRESSURE) 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 13	Non Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance

Attribute	Source	Unit	Value
System Description	UFGS 1.4	n/a	low-pressure carbon dioxide hose reel – low-pressure carbon dioxide underfloor – low-pressure carbon dioxide room flooding
Piping	UFGS 2.2	n/a	hot-dipped galvanized steel
UFGS Section and Date	UFGS MAY 2012	21 21 03.00 10	WET CHEMICAL FIRE EXTINGUISHING SYSTEM 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 13	Non Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	wet chemical fire extinguishing system for cooking equipment
Piping	UFGS 2.2	n/a	stainless steel
UFGS Section and Date	UFGS MAY 2012	21 22 00.00 20	HALON 1301 FIRE EXTINGUISHING 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 13	Non Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	halon underfloor flooding extinguishing system – halon room flooding extinguishing system
Piping	UFGS 2.1	n/a	black steel – zinc-coated steel
UFGS Section and Date	UFGS MAY 2012	21 22 00.00 40	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 05/10
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 13	Non Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary

Attribute	Source	Unit	Value
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	clean agent fire protection system
Piping	UFGS 2.2.1	n/a	galvanized ferrous piping
UFGS Section and Date	UFGS MAY 2012	21 23 00.00 20	WET CHEMICAL FIRE EXTINGUISHING FOR KITCHEN CABINET 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 13	Non Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	preengineered wet chemical fire extinguishing system for protection of cooking equipment
Piping	UFGS 2.1	n/a	stainless steel – chrome plated
UFGS Section and Date	UFGS MAY 2012	21 30 00	FIRE PUMPS 04/08
OCCS Table 23 Properties	OCCS MAY 2012	23-29 33 11	Water Based Suppression Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Rated Flow	COBie Guide	L/s (g/s)	insert value
Churn Pressure	COBie Guide	kPa (psig)	insert value
Controller Type	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - water saving - regional sourcing - local supply - scheduled maintenance

Attribute	Source	Unit	Value
System Description	UFGS 1.2	n/a	fire pumps
Fire Pump Operation	UFGS 1.6.1	n/a	pressure drop – tripping of sprinkler system – manually
Underground Piping Components	UFGS 2.4	n/a	outside-coated cement-mortar-lined ductile-iron pipe
Aboveground Piping Components	UFGS 2.5	n/a	black steel – steel – copper
UFGS Section and Date	UFGS MAY 2012	22 00 00	PLUMBING, GENERAL PURPOSE 11/11
OCCS Table 23 Properties	OCCS MAY 2012	23-31 00 00	Plumbing Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - water saving - regional sourcing - local supply - scheduled maintenance
Waste	COBie Guide	WSFU	insert water supply fixture units required
Vent	COBie Guide	WSFU	insert water supply fixture units required
Cold Water	COBie Guide	WSFU	insert water supply fixture units required
Hot Water	COBie Guide	WSFU	insert water supply fixture units required
Sanitary Fixture Water	COBie Guide	liter/flush (gpf)	insert value
Maximum Flow Rate	COBie Guide	L/min (gpm)	insert value
System Description	UFGS 1.2	n/a	standard plumbing products
Pipe Hangers, Inserts, Supports	UFGS 2.2	n/a	metal suitable for service
Valves	UFGS 2.3	n/a	backwater –relief – thermostatic mixing – wall – lawn - yard
Fixtures	UFGS 2.4	n/a	lavatories – water closets – urinals – sinks – coolers – bathtubs – shower stalls – shower floors – emergency eyewash and shower
Backflow Preventers	UFGS 2.5	n/a	reduced pressure assemblies – double check valve assemblies – nonpressure vacuum type – pressure type
Drains	UFGS 2.6	n/a	floor drains – shower drains – bathtub drains – area drains – floor sinks – boiler room drains – pit drains – roof drains – pool drains
Shower Pans	UFGS 2.7	n/a	copper shower pans – plasticized polyvinyl chloride shower pans – nonplasticized polyvinyl chloride shower pans
Traps	UFGS 2.8	n/a	plastic – copper-alloy
Interceptors	UFGS 2.9	n/a	grease interceptors – oil interceptors – sand interceptors
Water Heaters	UFGS 2.10	n/a	automatic – instantaneous – electric instantaneous tankless
Hot-Water Storage Tanks	UFGS 2.11	n/a	cement-lined steel – glass-lined steel
Pumps	UFGS 2.12	n/a	sump pumps – circulating pumps – booster pumps – sewage pumps
Water Pressure Booster System	UFGS 2.13	n/a	constant speed pumping system – hydro-pneumatic water pressure system – variable speed pumping system
Compressed Air System	UFGS 2.14	n/a	air compressors – lubricated compressors – air receivers

Attribute	Source	Unit	Value
Domestic Water Service Meter	UFGS 2.15	n/a	positive displacement type – turbine type
Pool Water Safety Vacuum Release	UFGS 2.16	n/a	vacuum monitoring – power supply monitoring – low vacuum sensing and alarm
Electrical Work	UFGS 2.17	n/a	motors rated for continuous duty – motor starters - controls
Miscellaneous Piping Items	UFGS 2.18	n/a	escutcheon plates – pipe sleeves – pipe hangers – nameplates - labels

UFGS Section and Date	UFGS MAY 2012	22 00 70	PLUMBING, HEALTHCARE FACILITIES 11/11
OCCS Table 23 Properties	OCCS MAY 2012	23-31 00 00	Plumbing Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide/UFGS 1.2.1	n/a	energy saving - water saving - regional sourcing - local supply - scheduled maintenance
Waste	COBie Guide	WSFU	insert water supply fixture units required
Vent	COBie Guide	WSFU	insert water supply fixture units required
Cold Water	COBie Guide	WSFU	insert water supply fixture units required
Hot Water	COBie Guide	WSFU	insert water supply fixture units required
Sanitary Fixture Water	COBie Guide	liter/flush (gpf)	insert value
Maximum Flow Rate	COBie Guide	L/min (gpm)	insert value
System Description	UFGS 1.2	n/a	operable plumbing systems
Pipe and Fittings	UFGS 2.4	n/a	domestic water piping – deionized water piping – drainage piping – pressure drainage piping – exposed piping
Pipe Joint Materials	UFGS 2.5	n/a	couplings – flange gaskets – elastomeric seals – flanged fittings
Miscellaneous Materials	UFGS 2.6	n/a	water hammer arrestor – copper strips – hose clamps – metallic cleanouts – fixture setting compound - thermometers
Pipe Insulation Material	UFGS 2.7	n/a	thermal insulation
Pipe Hangers, Inserts, Supports	UFGS 2.8	n/a	ferrous – non-ferrous in MRI suites
Valves	UFGS 2.9	n/a	butterfly – gate – swing check – ball – plug – globe – angle – backwater – vacuum relief – water pressure reducing
Plumbing Fixtures	UFGS 2.10	n/a	water coolers – emergency fixtures – lavatories – service basin – showers – sinks – urinals – water closets – hose bibs and hydrants
Backflow Preventers	UFGS 2.11	n/a	reduced pressure – double check valve – nonpressure vacuum breakers - pressure type vacuum breakers
Drains and Backwater Valves	UFGS 2.12	n/a	area drains – floor and shower drains – floor sinks – roof drains – sight drains – backwater valves
Cleanouts	UFGS 2.13	n/a	coated cast-iron bodies
Traps	UFGS 2.14	n/a	fixture traps – drain traps
Trap Primer Assemblies	UFGS 2.15	n/a	fully automatic

Attribute	Source	Unit	Value
Interceptors	UFGS 2.16	n/a	grease interceptors – oil interceptors
Water Heaters	UFGS 2.17	n/a	automatic – instantaneous – electric instantaneous tankless
Hot-Water Storage Tanks	UFGS 2.18	n/a	cement-lined steel – glass-lined steel
Pumps	UFGS 2.19	n/a	sump pumps – elevator sump pumps – circulating pumps – booster pumps – sewage pumps
Water Pressure Booster System	UFGS 2.20	n/a	constant speed pumping system – variable speed pumping system
Domestic Water Service Meter	UFGS 2.21	n/a	positive displacement type – turbine type
Copper-Silver Ionization System	UFGS 2.22	n/a	controller with electrode cells and flow meter
Electrical Work	UFGS 2.23	n/a	motors rated for continuous duty – motor starters - controls
UFGS Section and Date	UFGS MAY 2012	22 05 48.00 20	MECHANICAL SOUND, VIBRATION, AND SEISMIC CONTROL 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-19 29 19 11	Sound, Vibration and Seismic Control Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.4	n/a	vibration isolation and seismic snubbing for mechanical and electrical equipment
Isolator Types	UFGS 2.2	n/a	floor-mounted isolators- spring isolators – suspension isolators – inertia bases – flexible connectors – seismic snubbers
UFGS Section and Date	UFGS MAY 2012	22 05 83.63	CURED-IN-PLACE PIPE (CIPP) LINING 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-27 39 00	Piping
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	cured-in-place lining systems for piping and conduit
Lining Materials	UFGS 2.1	n/a	lining tube – resin

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	22 07 19.00 40	PLUMBING PIPING INSULATION 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-27 63 11	Pipe Insulation
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	non-combustible thermal-insulation system materials
Insulation Materials	UFGS 2.1	n/a	mineral fiber – cellular elastomer – cellular glass – calcium silicate – fiberglass - polyisocyanurate
Adhesives	UFGS 2.2	n/a	cloth – vapor-barrier material – cellular elastomer
Insulating Cement	UFGS 2.3	n/a	general purpose – finishing
Caulking	UFGS 2.4	n/a	elastomeric joint sealant
Corner Angles	UFGS 2.5	n/a	aluminum corner angle piping insulation with kraft backing
Jacketing	UFGS 2.6	n/a	aluminum – asphalt-saturated – stainless steel – glass cloth - PVC
Coatings	UFGS 2.7	n/a	outdoor vapor barrier – indoor vapor-barrier – nonvapor-barrier – cellular-elastomer
Tape	UFGS 2.8	n/a	knitted elastic cloth glass lagging
UFGS Section and Date	UFGS MAY 2012	22 10 00.00 10	VERTICAL PUMPS, AXIAL-FLOW AND MIXED-FLOW IMPELLER-TYPE 07/07
OCCS Table 23 Properties	OCCS MAY 2012	23-27 17 00	Pumps
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Rated Flow	COBie Guide	L/s (g/s)	insert value

Attribute	Source	Unit	Value
Churn Pressure	COBie Guide	kPa (psig)	insert value
Controller Type	COBie Guide	n/a	insert value
System Description	UFGS 1.3	n/a	vertical axial-flow or mixed-flow, single or two stage impeller type pumps
Discharge Capacity	UFGS 1.3.2	L/s (gal/min)	insert value, against static head at applicable elevations
Metalwork	UFGS 2.2.1	n/a	aluminum-bronze – cast iron – steel – copper alloy
Speed	UFGS 2.3.1	r/min (rpm)	insert value
Efficiency at Head Capacity	UFGS 2.3.3	percent	insert value

UFGS Section and Date	UFGS MAY 2012	22 11 23.00 10	SUBMERSIBLE PUMP, AXIAL-FLOW AND MIXED-FLOW TYPE 07/07
OCCS Table 23 Properties	OCCS MAY 2012	23-27 17 00	Pumps
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Rated Flow	COBie Guide	L/s (g/s)	insert value
Churn Pressure	COBie Guide	kPa (psig)	insert value
Controller Type	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	pumping units for pumping stations
Discharge Capacity	UFGS 1.3.7	L/s (gal/min)	insert value, against static head at applicable elevations
Efficiency at Head Capacity	UFGS 1.3.8	percent	insert value
Metalwork	UFGS 2.2.1	n/a	aluminum-bronze – cast iron – steel – copper alloy
Speed	UFGS 2.3.2.1	r/min (rpm)	insert value

UFGS Section and Date	UFGS MAY 2012	22 13 29	SANITARY SEWERAGE PUMPS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-27 17 00	Pumps
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value

Attribute	Source	Unit	Value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Rated Flow	COBie Guide	L/s (g/s)	insert value
Churn Pressure	COBie Guide	kPa (psig)	insert value
Controller Type	COBie Guide	n/a	insert value
System Description	UFGS 2.1	n/a	sewage and sludge pumps for domestic type waste
Pump Type	UFGS 2.1	n/a	centrifugal solids handling – submersible centrifugal – screw – plunger – progressive cavity – diaphragm – impeller – rotary lobe
Pump Service	UFGS 2.2.1	n/a	insert value
Pump Design Operating Point	UFGS 2.2.1	L/s (gpm)	insert value, at designated head
Pump Impeller Type	UFGS 2.2.1	n/a	insert value
Pump Operating Speed	UFGS 2.2.1	r/min (rpm)	insert value
Pump Motor Type	UFGS 2.2.1	n/a	insert type

UFGS Section and Date	UFGS MAY 2012	22 13 36	PNEUMATIC SEWAGE EJECTORS 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-27 17 00	Pumps
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Rated Flow	COBie Guide	L/s (g/s)	insert value
Churn Pressure	COBie Guide	kPa (psig)	insert value
Controller Type	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	duplex pneumatic sewage ejectors
Maximum Sphere Size Ejection	UFGS 1.2	mm (in)	insert diameter

UFGS Section and Date	UFGS MAY 2012	22 14 29.00 40	SUMP PUMPS 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-27 17 00	Pumps
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number

Attribute	Source	Unit	Value
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Rated Flow	COBie Guide	L/s (g/s)	insert value
Churn Pressure	COBie Guide	kPa (psig)	insert value
Controller Type	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	centrifugal, wet-pit sump pumps - submersible sump pumps
UFGS Section and Date	UFGS MAY 2012	22 15 09.00 40	GENERAL SERVICE COMPRESSED-AIR SYSTEMS CLEANING PROCEDURES 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-27 39 00	Piping
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.4	n/a	cleaning processes for piping systems, components and tanks
Cleanliness Level Classification	UFGS 1.4.2	n/a	class 1 – class 2 – class 3 – class 4
System Cleaning Materials	UFGS 2.1	n/a	demineralized water – drying gas – preservation gas – acid – propyl bromide
UFGS Section and Date	UFGS MAY 2012	22 15 13.16 40	HIGH-PRESSURE COMPRESSED-AIR PIPING, PIPING COMPONENTS, AND VALVES, STAINLESS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-27 39 00	Piping
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	aboveground and underground pressurized piping systems

Attribute	Source	Unit	Value
Underground Piping Materials	UFGS 2.1	n/a	black carbon steel – corrosion-resistant steel
Aboveground Piping Materials	UFGS 2.2	n/a	black carbon steel – corrosion-resistant steel
Air Compressors	UFGS 2.3	n/a	continuous duty piston type
Manual Valves	UFGS 2.4	n/a	black carbon steel – corrosion-resistant steel
Piping Specialties	UFGS 2.5	n/a	pressure gages – pressure receiver gages – pneumatic transmitters - thermometers

UFGS Section and Date	UFGS MAY 2012	22 15 14.00 40	GENERAL SERVICE COMPRESSED-AIR SYSTEMS, LOW PRESSURE 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-27 21.00	Compressors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	aboveground and underground pressurized piping systems
Underground Piping Materials	UFGS 2.1	n/a	black carbon steel – galvanized carbon steel
Aboveground Piping Materials	UFGS 2.2	n/a	black carbon steel – galvanized carbon steel
Piping Specialties	UFGS 2.3	n/a	air pressure reducing stations – air line lubricators – compressed air receivers – pressure gages - thermometers
Air Compressors	UFGS 2.4	n/a	continuous duty piston type
Valves	UFGS 2.5	n/a	ball – butterfly – diaphragm control – gage cocks – gate valves – globe and angle valves – eccentric plug valves

UFGS Section and Date	UFGS MAY 2012	22 15 19.13 20	LARGE NONLUBRICATED RECIPROCATING AIR COMPRESSORS (OVER 300 HP) 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-27 21.15	Reciprocating Compressors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	large nonlubricated reciprocating air compressors

Attribute	Source	Unit	Value
Net Compressed Air Output	UFGS 2.2.2	L/s (SCFM)	insert value
Compressor Cooling Water Flow Rate	UFGS 2.2.2	L/s (gpm)	insert value
Unloaded Compressor Horsepower	UFGS 2.2.2	kW (hp)	insert value
UFGS Section and Date	UFGS MAY 2012	22 15 19.19 20	NONLUBRICATED ROTARY SCREW AIR COMPRESSORS (100 HP AND LARGER) 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-27 21 17	Rotary Compressors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	large nonlubricated rotary screw air compressors
Net Compressed Air Output	UFGS 2.2.2	L/s (SCFM)	insert value
Compressor Cooling Water Flow Rate	UFGS 2.2.2	L/s (gpm)	insert value
Unloaded Compressor Horsepower	UFGS 2.2.2	kW (hp)	insert value
UFGS Section and Date	UFGS MAY 2012	22 15 26.00 20	HIGH AND MEDIUM PRESSURE COMPRESSED AIR PIPING 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-27 39 00	Piping
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.4	n/a	non-breathing-air compressed air systems
Air Compressor	UFGS 2.1/2.4	n/a	high pressure - medium pressure
Compressed Air Dryer	UFGS 2.2/2.6/2.8	n/a	high pressure - medium pressure - medium pressure chilled water type - Desiccant type
Air Receivers and Separators	UFGS 2.3/2.5	n/a	high pressure - medium pressure

Attribute	Source	Unit	Value
Air Piping and Accessories	UFGS 2.9/2/10	n/a	high pressure – medium pressure
UFGS Section and Date	UFGS MAY 2012	22 16 19.26 20	LARGE CENTRIFUGAL AIR COMPRESSORS (OVER 200 HP) 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-27 21.13	Centrifugal Compressors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	large centrifugal air compressors
Net Compressed Air Output	UFGS 2.2.2	L/s (SCFM)	insert value
Compressor Cooling Water Flow Rate	UFGS 2.2.2	L/s (gpm)	insert value
Unloaded Compressor Horsepower	UFGS 2.2.2	kW (hp)	insert value
UFGS Section and Date	UFGS MAY 2012	22 31 00	WATER SOFTENERS, CATION-EXCHANGE (SODIUM CYCLE) 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-27 55 27 11	Water Softeners
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	fully automatic water softening - semi-automatic water softening - manual water softening
Equipment Capacity	UFGS 2.2.1	liters (gal)	insert value,
Water Hardness Influent	UFGS 2.2.1	mg/L	insert value
Water Hardness Effluent	UFGS 2.2.1	mg/L	insert value
Generation Interval	UFGS 2.2.1	hours	insert value
UFGS Section and Date	UFGS MAY 2012	22 33 30.00 10	SOLAR WATER HEATING EQUIPMENT 04/08

Attribute	Source	Unit	Value
OCCS Table 23 Properties	OCCS MAY 2012	23-33 53 00	Solar Water Heating Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - water saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	solar domestic and service water heating equipment
Solar Collector Construction	UFGS 2.4.1	n/a	flat-plate liquid internally manifold type
Array Aperture Area	UFGS 2.5.1	sq.m (sq.ft.)	insert value
UFGS Section and Date	UFGS MAY 2012	22 60 70	GAS AND VACUUM SYSTEMS FOR HEALTHCARE FACILITIES 05/09
OCCS Table 23 Properties	OCCS MAY 2012	23-25 33 00	Medical Gas Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide/UFGS 1.2.2	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	medical and dental gas, support and vacuum systems for healthcare facilities
Healthcare Code Criteria	UFGS 1.2	n/a	level 1 – level 3
Gas Systems	UFGS 1.2	n/a	oxygen - nitrous oxide - dental compressed air - lab compressed air - process compress air - nitrogen - carbon dioxide
Vacuum Systems	UFGS 1.2	n/a	dental surgical - oral evacuation - high-volume laboratory dust evacuation - medical surgical - waste anesthetic gas disposal
UFGS Section and Date	UFGS MAY 2012	22 66 53.00 40	LABORATORY CHEMICAL-WASTE AND VENT PIPING 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-27 39 00	Piping
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof

Attribute	Source	Unit	Value
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	corrosion-resistant chemical-waste drainage systems
Piping Type	UFGS 2.1	n/a	borosilicate glass - high-silicon cast iron - polyethylene - polyvinyl chloride

UFGS Section and Date	UFGS MAY 2012	23 00 00	AIR SUPPLY, DISTRIBUTION, VENTILATION, AND EXHAUST SYSTEMS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-33 49 00	HVAC Ductwork
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide/UFGS 1.4.7	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	air supply, distribution, ventilation and exhaust portions of an HVAC system
Duct Systems	UFGS 2.10	n/a	metal ductwork - duct access doors - dampers - air deflectors - louvers - air vents - radon exhaust ductwork
Air Systems Equipment	UFGS 2.11	n/a	fans - coils - air filters
Air Handling Units	UFGS 2.12	n/a	field-fabricated - factory-fabricated casings coils filters fans
Terminal Units	UFGS 2.13	n/a	room fan-coil units - coil induction units - variable air volume and dual duct terminal units - unit ventilators
Emergency Recovery Devices	UFGS 2.14	n/a	rotary wheel - run-around-coil - heat pipe - Desiccant wheel - plate heat exchanger
Components	UFGS 2.16	n/a	water piping - refrigerant piping - condensate drain lines - backflow preventers - insulation - controls

UFGS Section and Date	UFGS MAY 2012	23 01 30.41	HVAC SYSTEM CLEANING 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-33 00 00	HVAC Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary

Attribute	Source	Unit	Value
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	cleaning of HVAC systems
Components	UFGS 1.2	n/a	HVAC cleaning materials

UFGS Section and Date	UFGS MAY 2012	23 03 00.00 20	BASIC MECHANICAL MATERIALS AND METHODS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-33 00 00	HVAC Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide/UFGS 1.4.5.3	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	mechanical general requirements for specification divisions 21, 22, 23

UFGS Section and Date	UFGS MAY 2012	23 05 15	COMMON PIPING FOR HVAC 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-33 00 00	HVAC Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	standard mechanical work piping
Pipe and Fittings	UFGS 2.2	n/a	type bcs - type bcs-125 - type gcs - type gcs-ewv - type cisp-dvw - type cpr-a - type cpr-u - type cpr-ins
Piping Specialties	UFGS 2.3	n/a	air separator - air vents - compression takes - piping expansion joints - faucets - gages - thermometers

Attribute	Source	Unit	Value
Valves	UFGS 2.4	n/a	ball – butterfly – drain vent and gage cocks – gate – globe and angle – standard check - nonslam check
UFGS Section and Date UFGS MAY 2012 23 05 48.00 40 VIBRATION AND SEISMIC CONTROLS FOR HVAC PIPING AND EQUIPMENT 02/11			
OCCS Table 23 Properties	OCCS MAY 2012	23-33 00 00	HVAC Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	vibration isolation systems for air-conditioning equipment
Vibration Isolation Mountings	UFGS 2.1.2	n/a	type a - type b - type c - type d - type e - type f - type g
Vibration Isolation Bases	UFGS 2.1.3	n/a	type r - type s - type u - type cib
UFGS Section and Date UFGS MAY 2012 23 05 93 TESTING, ADJUSTING, AND BALANCING FOR HVAC 08/09			
OCCS Table 23 Properties	OCCS MAY 2012	23-33 00 00	HVAC Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide/UFGS 1.5.3	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	testing, adjusting and balancing of heating ventilation and air-conditioning air and water distribution system
Components	UFGS 2.1	n/a	duct air leakage test procedures – testing adjusting and balancing procedures
UFGS Section and Date UFGS MAY 2012 23 07 00 THERMAL INSULATION FOR MECHANICAL SYSTEMS 08/10			
OCCS Table 23 Properties	OCCS MAY 2012	23-27 63 00	Mechanical Insulation and Linings
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof

Attribute	Source	Unit	Value
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide/UFGS 1.4.2	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	thermal insulation on HVAC and plumbing systems
Components	UFGS 2.1/2.2	n/a	vapor-retarding jackets – nonvapor-retarding jackets
Pipe Insulation	UFGS 2.3	n/a	aboveground cold pipeline – aboveground hot pipe line – aboveground dual temperature pipeline – below-ground pipeline
Duct Insulation	UFGS 2.4	n/a	duct – kitchen exhaust ductwork – acoustical duct lining – duct insulation jackets – weatherproof duct insulation

UFGS Section and Date	UFGS MAY 2012	23 08 00.00 10	COMMISSIONING OF HVAC SYSTEMS 01/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 00 00	HVAC Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	commissioning of HVAC systems
Components	UFGS 3.1	n/a	performance and functional test procedures forms checklists

UFGS Section and Date	UFGS MAY 2012	23 08 01.00 20	TESTING INDUSTRIAL VENTILATION SYSTEMS 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-33 00 00	HVAC Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance

Attribute	Source	Unit	Value
System Description	UFGS 1.2	n/a	air flow testing of industrial ventilation systems
Components	UFGS 3.1	n/a	test procedures and forms
UFGS Section and Date	UFGS MAY 2012	23 09 13.34 40	CONTROL VALVES, SELF-CONTAINED 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-27 31 00	Valves
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	self-contained control and relief valves
Temperature Valves	UFGS 2.1/2.2	n/a	temperature-control type 1 class 2 – temperature control type 2 class 2 style a - temperature-regulator
Pressure Valves	UFGS 2.4	n/a	water pressure-regulating – water pressure-relief – pilot-operated pressure-relief
UFGS Section and Date	UFGS MAY 2012	23 09 23.13 20	BACnet DIRECT DIGITAL CONTROL SYSTEMS FOR HVAC 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-27 15 23	HVAC Controls
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	direct digital control of HVAC systems
Components	UFGS 2.1/2.2/2.3	n/a	DDC system – sensors and input hardware – output hardware
UFGS Section and Date	UFGS MAY 2012	23 09 23	LONWORKS DIRECT DIGITAL CONTROL FOR HVAC AND OTHER BUILDING CONTROL SYSTEMS 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-27 11 00	General Instruments and Controls
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof

Attribute	Source	Unit	Value
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	direct digital control for HVAC and other building control systems
Components	UFGS 2.1/2.2/2.3	n/a	equipment - valves - dampers - sensors - indicating devices - output devices - hardware

UFGS Section and Date	UFGS MAY 2012	23 09 33.00 40	ELECTRIC AND ELECTRONIC CONTROL SYSTEM FOR HVAC 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-27 15 23	HVAC Controls
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	controls and instrumentation for air handling equipment
Automatic Temperature Control Type	UFGS 1.2	n/a	equivalent pneumatic - electronic - electric/electronic - low-voltage electric - pneumatic/electronic
Components	UFGS 2.1/2.2/2.3	n/a	sensors - thermometers - pressure gages - valves - pneumatic components - air-supply - dampers

UFGS Section and Date	UFGS MAY 2012	23 09 53.00 20	SPACE TEMPERATURE CONTROL SYSTEMS 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-27 11 00	General Instruments and Controls
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value

Attribute	Source	Unit	Value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	space temperature control system for HVAC system
Temperature Control Type	UFGS 1.3	n/a	electric – analog electronic – pneumatic
Components	UFGS 2.1/2.2/2.3	n/a	actuators – control valves – dampers – sensors – thermowells – thermostats – valves – gages - controllers

UFGS Section and Date	UFGS MAY 2012	23 11 25	FACILITY GAS PIPING 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-27 39 00	Piping
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	low pressure facility gas piping systems
Components	UFGS 2.1/2.2/2.3	n/a	piping – valves – risers – hangers and supports – valves
Gas Piping	UFGS 2.2	n/a	steel pipe – aluminum pipe – copper tubing – steel tubing – thermoplastic pipe – fiberglass pipe

UFGS Section and Date	UFGS MAY 2012	23 21 13.00 20	LOW TEMPERATURE WATER (LTW) HEATING SYSTEM 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-33 15 00	HVAC Heating Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	low temperature water heating system including hot water piping and terminal units
Components	UFGS 2.1/2.2/2.3	n/a	pipe and fittings – central mechanical equipment – piping system equipment – terminal units

UFGS Section and Date	UFGS MAY 2012	23 21 13.23 20	[HIGH] [MEDIUM] TEMPERATURE WATER SYSTEM WITHIN BUILDINGS 07/07
-----------------------	---------------	----------------	---

Attribute	Source	Unit	Value
OCCS Table 23 Properties	OCCS MAY 2012	23-33 15 00	HVAC Heating Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3.2	n/a	high and medium temperature water piping systems inside of building mechanical rooms
Components	UFGS 2.1/2.2/2.3	n/a	pipe and fittings – valves – hangers and supports – heat exchanger – steam producer

UFGS Section and Date	UFGS MAY 2012	23 22 13.35 40	STEAM TRAPS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-27 37 15	Steam Traps
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	steam traps
Components	UFGS 2.2/2.3/2.4	n/a	type IB trap – type F&T trap – type T trap

UFGS Section and Date	UFGS MAY 2012	23 22 23.00 40	STEAM CONDENSATE PUMPS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-27 17 00	Pumps
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value

Attribute	Source	Unit	Value
Frequency	COBie Guide	Hz	insert value
Rated Flow	COBie Guide	L/s	insert value
Churn Pressure	COBie Guide	kPa	insert value
Controller Type	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	consensate return pump units and condensate steam pumps
Components	UFGS 2.1/2.2/2.3	n/a	condensate return pumps – condensate receivers – reciprocating steam pumps

UFGS Section and Date	UFGS MAY 2012	23 22 25.00 40	STEAM VALVES 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-27 31 00	Valves
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	valves for steam and condensate systems
Components	UFGS 2.2/2.3/2.4	n/a	gate valves – globe and angle valves – check valves – cone-plug balancing valves – eccentric plug valves

UFGS Section and Date	UFGS MAY 2012	23 22 26.00 20	STEAM SYSTEM AND TERMINAL UNITS 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-33 15 00	HVAC Heating Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	steam, condensate and terminal units for heating
Components	UFGS 2.1/2.2/2.3	n/a	high pressure piping – low pressure piping – fittings – valves – unit heaters – convertors – condensate return units – radiation units

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	23 23 00	REFRIGERANT PIPING 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-27 39 00	Piping
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	refrigerant piping inside of buildings
Components	UFGS 2.1/2.2/2.3	n/a	steel pipe - steel tubing - copper tubing - valves - gauges
UFGS Section and Date	UFGS MAY 2012	23 25 00	CHEMICAL TREATMENT OF WATER FOR MECHANICAL SYSTEMS 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-27 55 00	Liquid Treatment Components
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	chemical treatment of water for mechanical systems
Water Treatment	UFGS 2.6/2.7/2.8	n/a	condenser water - chilled water - boilers and heat exchangers - hot water boilers - steam boilers
UFGS Section and Date	UFGS MAY 2012	23 31 13.00 40	METAL DUCTS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-33 49 00	HVAC Ductwork
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value

Attribute	Source	Unit	Value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	low, medium and high pressure ductwork for air conditioning systems
Components	UFGS 2.1/2.2	n/a	galvanized steel ductwork – fittings – turning vanes – dampers – sound traps – connectors - hangers
Duct Applications	UFGS 3.3	n/a	low pressure – rectangular – round – round high pressure
UFGS Section and Date	UFGS MAY 2012	23 33 56	SELF-ACTING BLAST VALVES 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-27 31 00	Valves
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	self-acting blast valves for protection of supply and exhaust air systems
Valve Material	UFGS 2.1	n/a	iron – steel – corrosion resistant alloy steel – structural steel – stainless steel – aluminum
Components	UFGS 2.1/2.2	n/a	valves mounted in casing supports – valves mounted in piping or ducts
UFGS Section and Date	UFGS MAY 2012	23 34 23.00 40	HVAC POWER VENTILATORS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-33 31 21	Power Ventilators
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	power roof ventilators to exhaust air
Fan Type	UFGS 2.3	n/a	centrifugal – propeller – vane axial

Attribute	Source	Unit	Value
Ventilator Materials	UFGS 2.4	n/a	aluminum alloy – zinc-coated steel – fibrous glass
UFGS Section and Date	UFGS MAY 2012	23 35 00.00 10	OVERHEAD VEHICLE TAILPIPE [AND WELDING FUME] EXHAUST REMOVAL SYSTEM(S) 02/09
OCCS Table 23 Properties	OCCS MAY 2012	23-33 31 21	Power Ventilators
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	vehicle tailpipe and welding fume exhaust hoods
Components	UFGS 2.4/2.5	n/a	ductwork fittings and cleanout – exhaust hose and tailpipe receptors - dampers
UFGS Section and Date	UFGS MAY 2012	23 35 19.00 20	INDUSTRIAL VENTILATION AND EXHAUST 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-33 31 21	Power Ventilators
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide/UFGS 1.8	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	blower and exhaust systems for removal of flammable vapors
Components	UFGS 2.1/2.2/2.3	n/a	fans – heat recovery system – fire dampers – dust and fume collection ductwork – vehicle tail pipe exhaust – welding exhaust
UFGS Section and Date	UFGS MAY 2012	23 36 00.00 40	AIR TERMINAL UNITS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-33 41 00	HVAC Air Terminals
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary

Attribute	Source	Unit	Value
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	air terminal units for air handling systems
Air Terminal Unit Type	UFGS 2.1/2.2/2.3	n/a	bypass single-duct – fan-powered – induction air – shutoff single-duct – integral-diffuser – mixing boxes

UFGS Section and Date	UFGS MAY 2012	23 37 13.00 40	DIFFUSERS, REGISTERS, AND GRILLS 05/10
OCCS Table 23 Properties	OCCS MAY 2012	23-33 49 00	HVAC Ductwork
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.2	n/a	air diffusion devices connected to ductwork or mounted in equipment
Components	UFGS 2.2	n/a	diffusers – registers – grills – troffers
UFGS Section and Date	UFGS MAY 2012	23 40 00.00 10	CHEMICAL, BIOLOGICAL, AND RADIOLOGICAL (CBR) AIR FILTRATION SYSTEM 10/06
OCCS Table 23 Properties	OCCS MAY 2012	23-27 57 27	Air Filters
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	chemical, biological, radiological air filtration systems
Components	UFGS 2.3/2.4/2.5	n/a	filtration system housing – filters – adsorbers – handling kits – test sections – isolation dampers - ductwork

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	23 41 13.00 40	PANEL FILTERS 05/10
OCCS Table 23 Properties	OCCS MAY 2012	23-27 57 27	Air Filters
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.1	n/a	filters for use with air handling equipment
Filter Types	UFGS 2.1	n/a	disposable – cleanable – replaceable – automatic – high-efficiency particulate air
UFGS Section and Date	UFGS MAY 2012	23 51 43.00 20	DUST AND GAS COLLECTOR, DRY SCRUBBER AND FABRIC FILTER TYPE 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-27 57 29	Dust Collectors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	dry flue gas desulfurization scrubber and fabric filter baghouse systems
Components	UFGS 2.7/2.8/2.0	n/a	spray dryer absorbers – fabric filter baghouses – pumps – valves – motors – ductwork – instrumentation - controls
UFGS Section and Date	UFGS MAY 2012	23 51 43.01 20	MECHANICAL CYCLONE DUST COLLECTOR OF FLUE GAS PARTICULATES 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-27 57 29	Dust Collectors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number

Attribute	Source	Unit	Value
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	mechanical cyclone-type dust collectors
Components	UFGS 2.2	n/a	hoppers – collecting and outlet tubes – heating systems – alarms – ductwork – insulation and casing

UFGS Section and Date	UFGS MAY 2012	23 51 43.02 20	ELECTROSTATIC DUST COLLECTOR OF FLUE GAS PARTICULATES 04/06
-----------------------	---------------	----------------	---

OCCS Table 23 Properties	OCCS MAY 2012	23-27 57 29	Dust Collectors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	electrostatic precipitators
Components	UFGS 2.4/2.5/2.6	n/a	housings – hoppers – alarms – access provisions

UFGS Section and Date	UFGS MAY 2012	23 51 43.03 20	FABRIC FILTER DUST COLLECTOR OF FLY ASH PARTICLES IN FLUE GAS 02/10
-----------------------	---------------	----------------	---

OCCS Table 23 Properties	OCCS MAY 2012	23-27 57 29	Dust Collectors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	fabric filter type dust collectors
Components	UFGS 2.4/2.5/2.6	n/a	ductwork system – hoppers – bag cleaning system – baghouse controls – access provisions

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	23 52 00	HEATING BOILERS 04/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 11 00	Commercial Boilers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Input Power	COBie Guide	kW	insert value
Output Power	COBie Guide	kW	insert value
Water Flow	COBie Guide	cu.m/hr	insert value
Entering Water Temp	COBie Guide	C	insert value
Leaving Water Temp	COBie Guide	C	insert value
Vent Diameter	COBie Guide	mm	insert value
Passes	COBie Guide	n/a	insert value
Pressure Drop	COBie Guide	kPa	insert value
Energy Source	COBie Guide	n/a	insert value
Fuel Type	COBie Guide	n/a	insert value
Output Media	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	packaged hot water and steam boiler systems
Boiler Type	UFGS 2.2	n/a	firetube - watertube - cast iron - condensing - hot water heating - steam heating
Fuel Burning Equipment	UFGS 2.3	n/a	gas burner - oil burner - combination gas-oil burner - steam atomizer - mechanical pressure atomizer
Components	UFGS 2.4/2.5/2.6	n/a	combustion control - pumps - radiators - convectors - unit heaters - heating and ventilating units - air handling units
Fittings and Accessories	UFGS 2.12	n/a	blowers - heaters - vents - gaskets - pipes - pipe connectors - valves - air vents - insulation - storage system - water treatment
UFGS Section and Date	UFGS MAY 2012	23 52 33.01 20	STEAM HEATING PLANT WATERTUBE (SHOP ASSEMBLED) COAL/OIL OR COAL 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 11 21	Water Tube Boilers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value

Attribute	Source	Unit	Value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Input Power	COBie Guide	kW	insert value
Output Power	COBie Guide	kW	insert value
Water Flow	COBie Guide	cu.m/hr	insert value
Entering Water Temp	COBie Guide	C	insert value
Leaving Water Temp	COBie Guide	C	insert value
Vent Diameter	COBie Guide	mm	insert value
Passes	COBie Guide	n/a	insert value
Pressure Drop	COBie Guide	kPa	insert value
Energy Source	COBie Guide	n/a	insert value
Fuel Type	COBie Guide	n/a	insert value
Output Media	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.4	n/a	steam heating plant
Components	UFGS 2.2/2.3/2.4	n/a	watertube boiler – economizer – burner – fans – breeching – stacks – dampers – ash handling – pollution controls

UFGS Section and Date	UFGS MAY 2012	23 52 33.02 20	STEAM HEATING PLANT WATERTUBE (FIELD ERECTED) COAL/OIL OR COAL 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 11 21	Water Tube Boilers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Input Power	COBie Guide	kW	insert value
Output Power	COBie Guide	kW	insert value
Water Flow	COBie Guide	cu.m/hr	insert value
Entering Water Temp	COBie Guide	C	insert value
Leaving Water Temp	COBie Guide	C	insert value
Vent Diameter	COBie Guide	mm	insert value
Passes	COBie Guide	n/a	insert value
Pressure Drop	COBie Guide	kPa	insert value
Energy Source	COBie Guide	n/a	insert value
Fuel Type	COBie Guide	n/a	insert value
Output Media	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.4	n/a	steam heating plant

Attribute	Source	Unit	Value
Components	UFGS 2.2/2.3/2.4	n/a	watertube boiler – economizer – burner – fans – breeching – stacks – dampers - fuel system – ash handling – pollution controls
UFGS Section and Date	UFGS MAY 2012	23 52 33.03 20	WATER-TUBE BOILERS, OIL/GAS OR OIL 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 11 21	Water Tube Boilers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Input Power	COBie Guide	kW	insert value
Output Power	COBie Guide	kW	insert value
Water Flow	COBie Guide	cu.m/hr	insert value
Entering Water Temp	COBie Guide	C	insert value
Leaving Water Temp	COBie Guide	C	insert value
Vent Diameter	COBie Guide	mm	insert value
Passes	COBie Guide	n/a	insert value
Pressure Drop	COBie Guide	kPa	insert value
Energy Source	COBie Guide	n/a	insert value
Fuel Type	COBie Guide	n/a	insert value
Output Media	COBie Guide	n/a	insert value
Sustainability	COBie Guide/UFGS 1.8	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	steam heating plant
Components	UFGS 2.2/2.3/2.4	n/a	watertube boiler – economizer – burner – fans – breeching – stacks – dampers - fuel system
UFGS Section and Date	UFGS MAY 2012	23 52 43.00 10	HEAT RECOVERY BOILERS 04/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 11 00	Commercial Boilers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Input Power	COBie Guide	kW	insert value

Attribute	Source	Unit	Value
Output Power	COBie Guide	kW	insert value
Water Flow	COBie Guide	cu.m/hr	insert value
Entering Water Temp	COBie Guide	C	insert value
Leaving Water Temp	COBie Guide	C	insert value
Vent Diameter	COBie Guide	mm	insert value
Passes	COBie Guide	n/a	insert value
Pressure Drop	COBie Guide	kPa	insert value
Energy Source	COBie Guide	n/a	insert value
Fuel Type	COBie Guide	n/a	insert value
Output Media	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	steam generating boilers
Components	UFGS 2.2/2.3/2.4	n/a	boiler – economizer – condensate tank – heat exchangers – feedwater heater – piping – chemical treatment - control equipment

UFGS Section and Date	UFGS MAY 2012	23 52 43.00 20	LOW PRESSURE WATER HEATING BOILERS (UNDER 800,000 BTU/HR OUTPUT) 07/06
OCCS Table 23 Properties	OCCS MAY 2012	23-33 11.00	Commercial Boilers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Input Power	COBie Guide	kW	insert value
Output Power	COBie Guide	kW	insert value
Water Flow	COBie Guide	cu.m/hr	insert value
Entering Water Temp	COBie Guide	C	insert value
Leaving Water Temp	COBie Guide	C	insert value
Vent Diameter	COBie Guide	mm	insert value
Passes	COBie Guide	n/a	insert value
Pressure Drop	COBie Guide	kPa	insert value
Energy Source	COBie Guide	n/a	insert value
Fuel Type	COBie Guide	n/a	insert value
Output Media	COBie Guide	n/a	insert value
Sustainability	COBie Guide/UFGS 1.6	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	low pressure hot water heating boilers
Burners	UFGS 2.2	n/a	atmospheric-type bas – gas-fired – oil-fired – gas and light oil-fired

Attribute	Source	Unit	Value
Components	UFGS 2.3/2.4/2.5	n/a	controls - make-up water station - feedwater treatment - stacks - breeching
UFGS Section and Date UFGS MAY 2012 23 52 46.00 20 LOW PRESSURE WATER HEATING BOILERS (OVER 800,000 BTU/HR OUTPUT) 04/06			
OCCS Table 23 Properties	OCCS MAY 2012	23-33 11 00	Commercial Boilers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Input Power	COBie Guide	kW	insert value
Output Power	COBie Guide	kW	insert value
Water Flow	COBie Guide	cu.m/hr	insert value
Entering Water Temp	COBie Guide	C	insert value
Leaving Water Temp	COBie Guide	C	insert value
Vent Diameter	COBie Guide	mm	insert value
Passes	COBie Guide	n/a	insert value
Pressure Drop	COBie Guide	kPa	insert value
Energy Source	COBie Guide	n/a	insert value
Fuel Type	COBie Guide	n/a	insert value
Output Media	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	low pressure hot water heating boilers
Burners	UFGS 2.2	n/a	gas-fired - oil-fired - combination gas and light oil-fired
Components	UFGS 2.3/2.4/2.5	n/a	controls - make-up water station - feedwater treatment - stacks - breeching
UFGS Section and Date UFGS MAY 2012 23 52 49.00 20 STEAM BOILERS AND EQUIPMENT (500,000 - 18,000,000 BTU/HR) 11/08			
OCCS Table 23 Properties	OCCS MAY 2012	23-33 11 00	Commercial Boilers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value

Attribute	Source	Unit	Value
Frequency	COBie Guide	Hz	insert value
Input Power	COBie Guide	kW	insert value
Output Power	COBie Guide	kW	insert value
Water Flow	COBie Guide	cu.m/hr	insert value
Entering Water Temp	COBie Guide	C	insert value
Leaving Water Temp	COBie Guide	C	insert value
Vent Diameter	COBie Guide	mm	insert value
Passes	COBie Guide	n/a	insert value
Pressure Drop	COBie Guide	kPa	insert value
Energy Source	COBie Guide	n/a	insert value
Fuel Type	COBie Guide	n/a	insert value
Output Media	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	steam boilers
Boiler Type	UFGS 2.1	n/a	packaged firetube – firtube – watertube – cast iron sectional
Components	UFGS 2.1/2.2/2.3	n/a	boilers – breeching – blowdown equipment – feedwater equipment

UFGS Section and Date	UFGS MAY 2012	23 52 53.00 20	STEAM BOILERS AND EQUIPMENT (18,000,000 - 60,000,000 BTU/HR) 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-33 11.00	Commercial Boilers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Input Power	COBie Guide	kW	insert value
Output Power	COBie Guide	kW	insert value
Water Flow	COBie Guide	cu.m/hr	insert value
Entering Water Temp	COBie Guide	C	insert value
Leaving Water Temp	COBie Guide	C	insert value
Vent Diameter	COBie Guide	mm	insert value
Passes	COBie Guide	n/a	insert value
Pressure Drop	COBie Guide	kPa	insert value
Energy Source	COBie Guide	n/a	insert value
Fuel Type	COBie Guide	n/a	insert value
Output Media	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	packaged steam boilers

Attribute	Source	Unit	Value
Components	UFGS 2.1/2.2/2.3	n/a	boilers – breeching – stacks – blowdown equipment – feedwater equipment
UFGS Section and Date	UFGS MAY 2012	23 54 16.00 10	HEATING SYSTEM; GAS-FIRED HEATERS 04/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 15 00	HVAC Heating Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	gas-fired heaters
Heaters	UFGS 2.3	n/a	direct fired make-up air – indirect fired make-up – unit – infrared – wall furnace – duct furnace
Components	UFGS 2.3/2.4/2.5	n/a	heaters – thermostats – vent piping – vent dampers - insulation
UFGS Section and Date	UFGS MAY 2012	23 54 19	BUILDING HEATING SYSTEMS, WARM AIR 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 15 00	HVAC Heating Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	warm air heating systems
Furnaces	UFGS 2.1	n/a	gas-fired – oil-fired
Components	UFGS 2.1/2.2/2.3	n/a	self-contained furnaces – vent connections – controls – vent dampers – humidifiers - filters
UFGS Section and Date	UFGS MAY 2012	23 57 10.00 10	FORCED HOT WATER HEATING SYSTEMS USING WATER AND STEAM HEAT EXCHANGERS 01/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 15 00	HVAC Heating Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX

Attribute	Source	Unit	Value
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	forced hot water heating system
Components	UFGS 2.2/2.3/2.4	n/a	piping - valves - tanks - traps - heat exchangers - insulation - radiators - unit heaters - water treatment

UFGS Section and Date	UFGS MAY 2012	23 63 00.00 10	COLD STORAGE REFRIGERATION SYSTEMS 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-33 37 00	Refrigerant Condensing Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	refrigeration equipment for cold storage facilities
Condensers	UFGS 2.5/2.6/2.7	n/a	compressor/condensing units - air-cooled condenser - water-cooled condenser - evaporative condensers
Components	UFGS 2.4/2.5/2.6	n/a	condensers - unit coolers - controls - heat recovery - leak detectors - piping - valves - refrigerant accessories

UFGS Section and Date	UFGS MAY 2012	23 64 00	PACKAGED WATER CHILLERS, ABSORPTION TYPE 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-33 21 11	Absorption Chillers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value

Attribute	Source	Unit	Value
Power	COBie Guide	kW	insert value
Capacity	COBie Guide	kW	insert value
Water Flow	COBie Guide	cu.m/hr	insert value
Ambient Temp	COBie Guide	deg C (F)	insert value
Pressure Drop	COBie Guide	kPa (psig)	insert value
Entering Water Temperature	COBie Guide/UFGS 2.5.6.2	deg C (F)	insert value
Leaving Water Temperature	COBie Guide/UFGS 2.5.6.2	deg C (F)	insert value
Motor Controller	COBie Guide/UFGS 2.3	n/a	insert value
Unloading Steps	COBie Guide	n/a	insert value
Chiller Media	COBie Guide	n/a	insert value
Chiller Type	COBie Guide	n/a	insert value
Refrigerant Type	COBie Guide/UFGS 2.5.4.6	n/a	insert value
Energy Efficiency Ratio (EER)	COBie Guide	btu/hr to kW	insert value
Integrated Part-Load Value (IPLV)	COBie Guide/UFGS 2.5.1	n/a	insert value
Heat Reclaim	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	absorption type packaged water chillers
Components	UFGS 2.4/2.5/2.6	n/a	absorber – evaporator – condenser – generator – combustion burner assembly – controls

UFGS Section and Date	UFGS MAY 2012	23 64 10	WATER CHILLERS, VAPOR COMPRESSION TYPE 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 21 00	Chillers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Power	COBie Guide	kW	insert value
Capacity	COBie Guide	kW	insert value
Water Flow	COBie Guide	cu.m/hr	insert value
Ambient Temp	COBie Guide	deg C (F)	insert value
Pressure Drop	COBie Guide	kPa (psig)	insert value
Entering Water Temperature	COBie Guide	deg C (F)	insert value
Leaving Water Temperature	COBie Guide	deg C (F)	insert value

Attribute	Source	Unit	Value
Motor Controller	COBie Guide	n/a	insert value
Unloading Steps	COBie Guide	n/a	insert value
Chiller Media	COBie Guide	n/a	insert value
Chiller Type	COBie Guide	n/a	insert value
Refrigerant Type	COBie Guide	n/a	insert value
Energy Efficiency Ratio (EER)	COBie Guide	btu/hr to kW	insert value
Integrated Part-Load Value (IPLV)	COBie Guide	n/a	insert value
Heat Reclaim	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	water chilling equipment
Chiller Type	UFGS 2.4/2.5	n/a	vapor compression self-contained water chillers – vapor compression split-system water chillers
Components	UFGS 2.6/2.7	n/a	refrigerant and oil – controls – compressors leak detectors

UFGS Section and Date	UFGS MAY 2012	23 64 26	CHILLED, CHILLED-HOT, AND CONDENSER WATER PIPING SYSTEMS 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-27 39 00	Piping
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	chilled water, chilled-hot water and condenser water piping
Components	UFGS 2.2/2.3/2.4	n/a	piping – tubing – valves – pumps – tanks – water treatment systems

UFGS Section and Date	UFGS MAY 2012	23 65 00	COOLING TOWERS 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 23 00	Cooling Towers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value

Attribute	Source	Unit	Value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	induced mechanical draft cooling towers
Cooling Towers	UFGS 2.5	n/a	factory-assembled cooling towers – field-assembled cooling towers
Components	UFGS 2.5	n/a	cooling towers – drift eliminators – basin equipment – heat transfer surface

UFGS Section and Date	UFGS MAY 2012	23 69 00.00 20	REFRIGERATION EQUIPMENT FOR COLD STORAGE 07/06
OCCS Table 23 Properties	OCCS MAY 2012	23-33 37 00	Refrigerant Condensing Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide/UFGS 1.6	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	refrigeration equipment for cold storage
Components	UFGS 2.2/2.3/2.4	n/a	air-cooled condensers – water-cooled condensers – atmospheric cooling equipment – controls – heat recovery – water treatment

UFGS Section and Date	UFGS MAY 2012	23 70 01.00 10	CENTRAL STEAM-GENERATING SYSTEM, COAL-FIRED 01/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 11 00	Commercial Boilers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Input Power	COBie Guide	kW	insert value
Output Power	COBie Guide	kW	insert value
Water Flow	COBie Guide	cu.m/hr	insert value
Entering Water Temp	COBie Guide	C	insert value
Leaving Water Temp	COBie Guide	C	insert value
Vent Diameter	COBie Guide	mm	insert value
Passes	COBie Guide	n/a	insert value
Pressure Drop	COBie Guide	kPa	insert value

Attribute	Source	Unit	Value
Energy Source	COBie Guide	n/a	insert value
Fuel Type	COBie Guide	n/a	insert value
Output Media	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	coal-fired central steam-generating system
Components	UFGS 2.2/2.3/2.4	n/a	boilers - stokers - combustion control - breeching - stacks - pumps - chemical treatment - coal handling - ash handling

UFGS Section and Date	UFGS MAY 2012	23 70 02.00 10	CENTRAL STEAM GENERATING SYSTEM - COMBINATION GAS AND OIL FIRED 01/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 11 00	Commercial Boilers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Input Power	COBie Guide	kW	insert value
Output Power	COBie Guide	kW	insert value
Water Flow	COBie Guide	cu.m/hr	insert value
Entering Water Temp	COBie Guide	C	insert value
Leaving Water Temp	COBie Guide	C	insert value
Vent Diameter	COBie Guide	mm	insert value
Passes	COBie Guide	n/a	insert value
Pressure Drop	COBie Guide	kPa	insert value
Energy Source	COBie Guide	n/a	insert value
Fuel Type	COBie Guide	n/a	insert value
Output Media	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance - cleaner fuels - lower air emissions -heat recovery
System Description	UFGS 1.3	n/a	steam generation plant
Components	UFGS 2.3/2.4/2.5	n/a	boiler - fuel burning equipment - controls - field devices - feedwater - condensate return - heat recovery - chemical feed

UFGS Section and Date	UFGS MAY 2012	23 70 03.00 10	HEATING AND UTILITIES SYSTEMS, CENTRAL STEAM 01/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 11 00	Commercial Boilers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof

Attribute	Source	Unit	Value
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Input Power	COBie Guide	kW	insert value
Output Power	COBie Guide	kW	insert value
Water Flow	COBie Guide	cu.m/hr	insert value
Entering Water Temp	COBie Guide	C	insert value
Leaving Water Temp	COBie Guide	C	insert value
Vent Diameter	COBie Guide	mm	insert value
Passes	COBie Guide	n/a	insert value
Pressure Drop	COBie Guide	kPa	insert value
Energy Source	COBie Guide	n/a	insert value
Fuel Type	COBie Guide	n/a	insert value
Output Media	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	central steam heating system
Components	UFGS 2.2/2.3/2.4	n/a	condensate pumping unit - controls - tanks - traps - radiators - convectors - unit heaters - piping

UFGS Section and Date	UFGS MAY 2012	23 71 19	THERMAL ENERGY STORAGE SYSTEM: ICE-ON-COIL 01/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 00 00	HVAC Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	ice-on-coil type thermal energy storage system
Components	UFGS 2.2/2.3/2.4	n/a	refrigeration system - controls - ice storage - piping

UFGS Section and Date	UFGS MAY 2012	23 72 00.00 10	ENERGY RECOVERY SYSTEMS 01/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 55 00	Energy HVAC Recovery Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof

Attribute	Source	Unit	Value
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	energy recovery systems for power plant installations
Components	UFGS 2.2/2.3/2.4	n/a	heat recovery equipment – water treatment equipment
UFGS Section and Date	UFGS MAY 2012	23 72 26.00 10	DESICCANT COOLING SYSTEMS 04/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 39 00	Air Conditioning Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	desiccant cooling systems
Desiccant System	UFGS 2.3	n/a	solid desiccant system – liquid Desiccant system
Components	UFGS 2.4/2.5/2.6	n/a	heat exchangers – conditioner units – pump assemblies
UFGS Section and Date	UFGS MAY 2012	23 73 13.00 40	MODULAR INDOOR CENTRAL-STATION AIR-HANDLING UNITS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-33 39 00	Air Conditioning Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Fan Flow - Maximum	COBie Guide	L/s	insert value
Fan Flow - Nominal	COBie Guide	L/s	insert value
Fan Outside Flow	COBie Guide	L/s	insert value
Fan Ext Pressure Drop	COBie Guide	kPa	insert value

Attribute	Source	Unit	Value
Fan Motor Power	COBie Guide	kW	insert value
Fan Speed	COBie Guide	RPM	insert value
Fan Sound Level	COBie Guide	dB	insert value
Coil Flow	COBie Guide	L/s	insert value
Coil Velocity	COBie Guide	m/min	insert value
Coil Capacity	COBie Guide	W	insert value
Entering Air Temp DB	COBie Guide	C	insert value
Entering Air Temp WB	COBie Guide	C	insert value
Leaving Air Temp DB	COBie Guide	C	insert value
Leaving Air Temp WB	COBie Guide	C	insert value
Entering Water Temp	COBie Guide	C	insert value
Leaving Water Temp	COBie Guide	C	insert value
Chilled Water Rate	COBie Guide	L/s	insert value
Runout Inlet Size	COBie Guide	mm	insert value
Runout Outlet Size	COBie Guide	mm	insert value
Coil Air Pressure Drop	COBie Guide	Pa	insert value
Coil Water Pressure Drop	COBie Guide	kPa	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	central-station air-handling units
Air Handling Unit Type	UFGS 2.3	n/a	low-pressure class A, medium pressure class B – high-pressure class C
Components	UFGS 2.3/2.4	n/a	air handling unit – unit cabinet – fan – drain pans – insulation – coils – eliminators – filters

UFGS Section and Date	UFGS MAY 2012	23 74 33.00 40	PACKAGED, OUTDOOR, HEATING AND COOLING MAKEUP AIR-CONDITIONERS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-33 39 17	Packaged Air Conditioners
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	packaged air-conditioning units
Air-Conditioner Type	UFGS 2.1	n/a	window-type – console-type – remote-split-type
Components	UFGS 2.1/2.2	n/a	self-contained packaged air-conditioners – vibration isolators

UFGS Section and Date	UFGS MAY 2012	23 76 00.00 10	EVAPORATIVE COOLING SYSTEMS 04/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 39 00	Air Conditioning Equipment

Attribute	Source	Unit	Value
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	evaporative cooling systems
Evaporative Cooler Type	UFGS 2.6	n/a	direct - indirect - indirect/direct - multi-stage
Components	UFGS 2.6/2.7/2.8	n/a	evaporative coolers – air waters – water tanks – cabinets – controls

UFGS Section and Date	UFGS MAY 2012	23 76 00.00 20	EVAPORATIVE COOLING SYSTEM 07/06
OCCS Table 23 Properties	OCCS MAY 2012	23-33 39 00	Air Conditioning Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide/UFGS 1.7	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	evaporative coolers and roof curbs
Evaporative Cooler Type	UFGS 2.2	n/a	single-stage drip-type – single-stage rotary-type – single-stage washer type – two-stage (compound) type
Components	UFGS 2.3/2.4/2.5	n/a	plenums – screens – roof curbs – vibration isolators

UFGS Section and Date	UFGS MAY 2012	23 81 00.00 20	UNITARY AIR CONDITIONING EQUIPMENT 11/09
OCCS Table 23 Properties	OCCS MAY 2012	23-33 39 00	Air Conditioning Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value

Attribute	Source	Unit	Value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide/UFGS 1.7	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	room air conditioners
Unitary Air Conditioner Type	UFGS 2.1/2.2/2.3	n/a	room air conditioners – packaged terminal units – heat pumps – single package air conditioners – split system air conditioners
Components	UFGS 2.1/2.2/2.3	n/a	air conditioners – filters – motors and starters – refrigerant piping

UFGS Section and Date	UFGS MAY 2012	23 81 23.00 20	COMPUTER ROOM AIR CONDITIONING UNITS 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-33 39 00	Air Conditioning Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide/UFGS 1.6	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	HVAC equipment for computer room air conditioning units
Components	UFGS 2.1/2.2/2.3	n/a	cabinets – refrigeration system – condenser – controls – piping - ductwork

UFGS Section and Date	UFGS MAY 2012	23 81 47	WATER-LOOP AND GROUND-LOOP HEAT PUMP SYSTEMS 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 17 00	Heat Pumps
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	water source heat pump and ground source closed-loop heat pump systems
Heat Pump Type	UFGS 2.1	n/a	water-source water-to-air – water-source water-to-water – ground source closed-loop

Attribute	Source	Unit	Value
Components	UFGS 2.3/2.4/2.5	n/a	aboveground piping systems – ground heat exchanger piping systems – piping accessories - controls
UFGS Section and Date	UFGS MAY 2012	23 82 00.00 20	TERMINAL HEATING AND COOLING UNITS 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 15 00	HVAC Heating Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	unit heaters and infrared heaters
Unit Heater Type	UFGS 2.1	n/a	gas-fired – oil-fired – steam – hot water – electric – unvented gas infrared – vented gas infrared – electric infrared
Components	UFGS 2.1/2.2/2.3	n/a	heaters – fans – piping systems
UFGS Section and Date	UFGS MAY 2012	23 82 01.00 10	WARM AIR HEATING SYSTEMS 04/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 15 00	HVAC Heating Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	warm air heating systems
Furnace Type	UFGS 2.2	n/a	gas-fired – oil-fired
Components	UFGS 2.2/2.3/2.4	n/a	furnace – air conditioning equipment – controls – dampers – humidifiers – filters - ductwork
UFGS Section and Date	UFGS MAY 2012	23 82 02.00 10	UNITARY HEATING AND COOLING EQUIPMENT 04/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 15 00	HVAC Heating Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name

Attribute	Source	Unit	Value
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	unitary packaged and split system air-conditioners and heat pumps
Heating and Cooling Equipment Type	UFGS 2.2/2.3	n/a	unitary room units – unitary packaged system – unitary split system
Components	UFGS 2.5/2.6/2.7	n/a	air conditioners – heat pumps - humidifiers – heat recovery devices

UFGS Section and Date	UFGS MAY 2012	23 82 16.00 40	AIR COILS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-33 15 00	HVAC Heating Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	air coils
Components	UFGS 2.2	n/a	steam heating coils – hot-water heating coils – chilled-water cooling coils – volatile refrigerant cooling coils

UFGS Section and Date	UFGS MAY 2012	23 82 19.00 40	FAN COIL UNITS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-33 33 00	HVAC Fan Coil Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Air Flow	COBie Guide	L/s	insert value

Attribute	Source	Unit	Value
Fan Speed	COBie Guide	n/a	insert value
Exit Static Pressure	COBie Guide	Pa	insert value
Entering Air Temp DB	COBie Guide	C	insert value
Entering Air Temp WB	COBie Guide	C	insert value
Leaving Air Temp DB	COBie Guide	C	insert value
Leaving Air Temp WB	COBie Guide	C	insert value
Total Capacity	COBie Guide	kW	insert value
Sensible Capacity	COBie Guide	kW	insert value
Entering Water Temp	COBie Guide	C	insert value
Leaving Water Temp	COBie Guide	C	insert value
Chilled Water Flow	COBie Guide	L/s	insert value
Cooling Coil Delta P	COBie Guide	kPa	insert value
Cooling Rows	COBie Guide	n/a	insert value
Fan Motor Power	COBie Guide	kW	insert value
Phase	COBie Guide	n/a	insert value
Cabinet Type	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	fan coil units for temperature-control assemblies
Components	UFGS 2.2/2.3/2.4	n/a	enclosure – casing – fan – coils – drain pans – filters – motors – controls - insulation

UFGS Section and Date	UFGS MAY 2012	23 82 23.00 40	UNIT VENTILATORS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-33 15 00	HVAC Heating Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	unit heaters and ventilators
Unit Heater and Ventilator Type	UFGS 2.1	n/a	gas unit heaters – hot water propeller unit heaters – steam propeller unit heaters - cabinet unit heaters – unit ventilators
Components	UFGS 2.1	n/a	heating element – filters – dampers – enclosures – insulation - controls

UFGS Section and Date	UFGS MAY 2012	23 82 43.00 40	ELECTRIC DUCT HEATERS 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-33 15 00	HVAC Heating Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX

Attribute	Source	Unit	Value
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	electric duct heaters
Components	UFGS 2.2	n/a	heating elements – enclosures - controls

UFGS Section and Date	UFGS MAY 2012	23 82 46.00 40	ELECTRIC UNIT HEATERS 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-33 15 00	HVAC Heating Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	electric unit heaters
Components	UFGS 2.3/2.4/2.5	n/a	heating elements – controls – propellers - motors

UFGS Section and Date	UFGS MAY 2012	23 83 00.00 20	ELECTRIC SPACE HEATING EQUIPMENT 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-33 15 00	HVAC Heating Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	electric space heating equipment

Attribute	Source	Unit	Value
Space Heater Type	UFGS 2.1/2/2/2.3	n/a	electric unit heater – electric cabinet heater – electric baseboard unit – electric sill unit – electric pedestal unit
Components	UFGS 2.3/2.4/2.5	n/a	heaters – thermostat – contactors - disconnects
UFGS Section and Date	UFGS MAY 2012	23 84 16.00 20	DESICCANT DEHUMIDIFICATION EQUIPMENT 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-33 27 13	Dehumidifiers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	rotary wheel type dehumidifiers
Humidifier Type	UFGS 2.1	n/a	natural gas fired rotary wheel dehumidifier – waste heat fired rotary wheel dehumidifier
Components	UFGS 2.1	n/a	air handling components – hot water heater – heat recovery device – evaporative chiller
UFGS Section and Date	UFGS MAY 2012	25 08 10	UTILITY MONITORING AND CONTROL SYSTEM TESTING 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-27 15 00	Building Automation and Control
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	factory, performance verification, endurance test procedures for utility monitoring and control systems and building level DDC
UFGS Section and Date	UFGS MAY 2012	25 10 10	LONWORKS UTILITY MONITORING AND CONTROL SYSTEM (UMCS) 05/10
OCCS Table 23 Properties	OCCS MAY 2012	23-27 15 00	Building Automation and Control
Name	COBie Guide	n/a	Type XX Space#-01

Attribute	Source	Unit	Value
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	supervisory control and monitoring of network for utility monitoring and control systems

UFGS Section and Date	UFGS MAY 2012	26 00 00.00 20	BASIC ELECTRICAL MATERIALS AND METHODS 07/06
OCCS Table 23 Properties	OCCS MAY 2012	23-35 00 00	Electrical and Lighting Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.4	n/a	electrical general requirements
Primary Electrical Characteristics	UFGS 1.4	n/a	kV primary - single phase - three phase - two wire - three wire - four wire - 60 Hz - 50 Hz
Secondary Electrical Characteristics	UFGS 1.4	n/a	volts secondary - single phase - three phase - three wire - four wire

UFGS Section and Date	UFGS MAY 2012	26 05 00.00 40	COMMON WORK RESULTS FOR ELECTRICAL 11/10
OCCS Table 23 Properties	OCCS MAY 2012	23-35 00 00	Electrical and Lighting Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value

Attribute	Source	Unit	Value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	requirements common to electrical sections
Electrical Components	UFGS 2.1/2.2/2.3	n/a	conduit - wire and cable -connectors - switches - receptacles - outlets - panelboards - breakers - lamps - fixtures - transformers
UFGS Section and Date	UFGS MAY 2012	26 05 13.00 40	MEDIUM-VOLTAGE CABLES 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-35 00 00	Electrical and Lighting Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	medium-voltage cables
Cable Types	UFGS 2.4	n/a	multiple-conductor shielded - multiple-conductor nonshielded - single-conductor shielded - single-conductor nonshielded - portable
UFGS Section and Date	UFGS MAY 2012	26 05 19.00 10	INSULATED WIRE AND CABLE 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 00 00	Electrical and Lighting Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	insulated wire and cable for use on hydraulic structures
Materials	UFGS 2.1	n/a	conductors - insulation - jackets - metal clad cable - identification
UFGS Section and Date	UFGS MAY 2012	26 05 33	DOCKSIDE POWER CONNECTION STATIONS 01/07
OCCS Table 23 Properties	OCCS MAY 2012	23-35 00 00	Electrical and Lighting Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX

Attribute	Source	Unit	Value
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	dockside power connections for ship service and industrial service
Power Connection Stations	UFGS 2.1/2.2	Volts	600 V – 15 KV

UFGS Section and Date	UFGS MAY 2012	26 05 48.00 10	SEISMIC PROTECTION FOR ELECTRICAL EQUIPMENT 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-19 29 19 11	Sound, Vibration and Seismic Control Products
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	seismic protection of electrical equipment, conduit and exterior utilities
Components	UFGS 2.1/2.2	n/a	lighting fixture supports –sway bracing materials

UFGS Section and Date	UFGS MAY 2012	26 05 70.00 40	HIGH VOLTAGE OVERCURRENT PROTECTIVE DEVICES 11/11
OCCS Table 23 Properties	OCCS MAY 2012	23-35 25 17	Electrical Power Protection Modules
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	high-voltage overcurrent protective devices

Attribute	Source	Unit	Value
Components	UFGS 2.1/2.2/2.3	n/a	motor controllers – transformers – enclosures – circuit breakers – fuses – protective relays – indicating instruments
UFGS Section and Date	UFGS MAY 2012	26 05 71.00 40	LOW VOLTAGE OVERCURRENT PROTECTIVE DEVICES 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-35 25 17	Electrical Power Protection Modules
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	low-voltage overcurrent protective devices
Components	UFGS 2.1/2.2/2.3	n/a	motor controllers – transformers – enclosures – circuit breakers – fuses – control devices - protective relays – indicating instruments
UFGS Section and Date	UFGS MAY 2012	26 08 00	APPARATUS INSPECTION AND TESTING 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 25 17	Electrical Power Protection Modules
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	electrical inspection and testing
UFGS Section and Date	UFGS MAY 2012	26 09 13	POWER MONITORING SYSTEM 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 25 17	Electrical Power Protection Modules
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes

Attribute	Source	Unit	Value
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	power monitoring systems
Components	UFGS 2.1/2.2/2.3	n/a	intelligent electronic devices - instrument transformers - workstation equipment - software

UFGS Section and Date	UFGS MAY 2012	26 09 23.00 40	LIGHTING CONTROL DEVICES 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-35 47 00	Electrical Lighting
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Mounting	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	lighting control devices
Components	UFGS 2.1/2.2/2.3	n/a	photoconductive control devices - switches - ballast controls - light sensors - occupancy sensors

UFGS Section and Date	UFGS MAY 2012	26 11 13.00 20	PRIMARY UNIT SUBSTATION 04/07
OCCS Table 23 Properties	OCCS MAY 2012	23-35 00 00	Electrical and Lighting Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Operating Weight	COBie Guide	Kg	insert value
Type of Support	COBie Guide	n/a	insert value
Horizontal Bus Current	COBie Guide	Amps	insert value
Vertical Bus Current	COBie Guide	Amps	insert value
Short Circuit Interrupting Rating	COBie Guide	KAIC	insert value
Enclosure Rating	COBie Guide	n/a	insert value

Attribute	Source	Unit	Value
Minimum Bus Bracing	COBie Guide	KAIC	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	primary substations and associated load break switches and switchgear
Components	UFGS 2.1/2.2	n/a	incoming sections – transition sections – transformer sections – switchgear section – protective devices – batteries and charger
UFGS Section and Date	UFGS MAY 2012	26 11 14.00 10	MAIN ELECTRIC SUPPLY STATION AND SUBSTATION 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-35 00 00	Electrical and Lighting Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Operating Weight	COBie Guide	Kg	insert value
Type of Support	COBie Guide	n/a	insert value
Horizontal Bus Current	COBie Guide	Amps	insert value
Vertical Bus Current	COBie Guide	Amps	insert value
Short Circuit Interrupting Rating	COBie Guide	KAIC	insert value
Enclosure Rating	COBie Guide	n/a	insert value
Minimum Bus Bracing	COBie Guide	KAIC	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	main electric supply stations or substations
Components	UFGS 2.1/2.2/2.3	n/a	incoming switching/circuit interrupting equipment – outgoing metal-clad switchgear - instrument transformers – substation equipment
UFGS Section and Date	UFGS MAY 2012	26 11 16	SECONDARY UNIT SUBSTATIONS 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-35 00 00	Electrical and Lighting Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value

Attribute	Source	Unit	Value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	three phase secondary unit substations
Components	UFGS 2.1/2.2/2.3	n/a	incoming stations – transformer sections – outgoing section – meters – instruments - transformer
UFGS Section and Date	UFGS MAY 2012	26 12 19.00 40	PAD-MOUNTED, LIQUID-FILLED, MEDIUM-VOLTAGE TRANSFORMERS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-35 13 00	Transformers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	three-phase pad-mounted transformers for exterior applications
Components	UFGS 2.1/2.2	n/a	high voltage dead-front type – high voltage live-front type – low voltage compartment – transformer – insulating liquid
UFGS Section and Date	UFGS MAY 2012	26 12 19.10	THREE-PHASE PAD-MOUNTED TRANSFORMERS 02/12
OCCS Table 23 Properties	OCCS MAY 2012	23-35 13 00	Transformers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	three-phase pad-mounted transformers for exterior applications
Components	UFGS 2.1/2.2	n/a	high voltage dead-front type – high voltage live-front type – low voltage compartment – transformer – insulating liquid
UFGS Section and Date	UFGS MAY 2012	26 12 19.20	SINGLE-PHASE PAD-MOUNTED TRANSFORMERS 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-35 13 00	Transformers

Attribute	Source	Unit	Value
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	single-phase pad-mounted transformers
Compartment Construction	UFGS 2.2.1	n/a	single – two compartment
Components	UFGS 2.2/2.3/2.4	n/a	dead-front type - high voltage compartment – low voltage compartment O insulating liquid

UFGS Section and Date	UFGS MAY 2012	26 13 00.00 20	SF6/HIGH-FIREPOINT FLUIDS INSULATED PAD-MOUNTED SWITCHGEAR 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-35 31.31	Switchgear
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Operating Weight	COBie Guide	Kg	insert value
Type of Support	COBie Guide	n/a	insert value
Horizontal Bus Current	COBie Guide	Amps	insert value
Vertical Bus Current	COBie Guide	Amps	insert value
Short Circuit Interrupting Rating	COBie Guide	KAIC	insert value
Enclosure Rating	COBie Guide	n/a	insert value
Minimum Bus Bracing	COBie Guide	KAIC	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	SF6 or high-firepoint biodegradable fluid insulated pad-mounted switchgear
Rating	UFGS 2.1.1	kV	15.5 kV – 27 kV – 38 kV
Components	UFGS 2.1/2.2/2.3	n/a	switchgear – high-voltage connectors – surge arresters – refill cylinders

UFGS Section and Date	UFGS MAY 2012	26 18 23.00 40	MEDIUM-VOLTAGE SURGE ARRESTERS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-35 39 17	Surge Protection Devices

Attribute	Source	Unit	Value
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	medium-voltage surge and lighting arrestors
Components	UFGS 3.2	n/a	distribution type arresters – intermediate type arresters – station type arresters

UFGS Section and Date	UFGS MAY 2012	26 20 00	INTERIOR DISTRIBUTION SYSTEM 08/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 00 00	Electrical and Lighting Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	electrical wiring systems
Conduit and Fittings	UFGS 2.2	n/a	rigid metallic – rigid nonmetallic – intermediate metal – zinc-coated electrical metallic tubing – plastic –coated rigid steel – flexible
Surface Raceways	UFGS 2.3	n/a	metal – nonmetallic
Busways	UFGS 2.4	n/a	feeder – plug in
Cable Trays	UFGS 2.5	n/a	basket-type – trough-type – ladder-type – solid-bottom type – cantilever
Telecommunications Cable Support	UFGS 2.6	n/a	open top – closed ring
General Components	UFGS 2.7/2.8/2.9	n/a	boxes – wires and cables – device plates – switches – fuses – receptacles – panelboards – load centers – breakers – transformers
Motor Components	UFGS 2.21/2.22/2.23	n/a	single-phase motors – polyphase motors – motor controllers – manual motor starters – motor control centers

UFGS Section and Date	UFGS MAY 2012	26 22 00.00 10	480-VOLT STATION SERVICE SWITCHGEAR AND TRANSFORMERS 10/07
-----------------------	---------------	----------------	--

Attribute	Source	Unit	Value
OCCS Table 23 Properties	OCCS MAY 2012	23-35 31 00	Electrical Power Distribution Devices
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Operating Weight	COBie Guide	Kg	insert value
Type of Support	COBie Guide	n/a	insert value
Horizontal Bus Current	COBie Guide	Amps	insert value
Vertical Bus Current	COBie Guide	Amps	insert value
Short Circuit Interrupting Rating	COBie Guide	KAIC	insert value
Enclosure Rating	COBie Guide	n/a	insert value
Minimum Bus Bracing	COBie Guide	KAIC	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	480-volt station service switchgear and transformers
Components	UFGS 2.5/2.6/2.7	n/a	service switchgear - metal-enclosed bus - secondary unit substation - station service transformers

UFGS Section and Date	UFGS MAY 2012	26 23 00.00 40	SWITCHBOARDS AND SWITCHGEAR 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-35 31 00	Electrical Power Distribution Devices
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Operating Weight	COBie Guide	Kg	insert value
Type of Support	COBie Guide	n/a	insert value
Horizontal Bus Current	COBie Guide	Amps	insert value
Vertical Bus Current	COBie Guide	Amps	insert value
Short Circuit Interrupting Rating	COBie Guide	KAIC	insert value
Enclosure Rating	COBie Guide	n/a	insert value
Minimum Bus Bracing	COBie Guide	KAIC	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	deadfront switchboard assemblies

Attribute	Source	Unit	Value
Components	UFGS 2.2	n/a	enclosure – sections – protective devices – breakers – trip units – instruments – meters – current transformers
UFGS Section and Date	UFGS MAY 2012	26 23 00	SWITCHBOARDS AND SWITCHGEAR 07/06
OCCS Table 23 Properties	OCCS MAY 2012	23-35 31 00	Electrical Power Distribution Devices
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Operating Weight	COBie Guide	Kg	insert value
Type of Support	COBie Guide	n/a	insert value
Horizontal Bus Current	COBie Guide	Amps	insert value
Vertical Bus Current	COBie Guide	Amps	insert value
Short Circuit Interrupting Rating	COBie Guide	KAIC	insert value
Enclosure Rating	COBie Guide	n/a	insert value
Minimum Bus Bracing	COBie Guide	KAIC	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	deadfront switchboard assemblies
Components	UFGS 2.2	n/a	enclosure – sections – protective devices – breakers – trip units – instruments – meters – current transformers
UFGS Section and Date	UFGS MAY 2012	26 24 16.00 40	PANELBOARDS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-35 31 13	Distribution Panel Boards
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Phase	COBie Guide	n/a	insert value
Number of Wires	COBie Guide	n/a	insert value
Number of Poles	COBie Guide	n/a	insert value
Main Breaker Mounting	COBie Guide	n/a	insert value
Main Bus Current	COBie Guide	Amps	insert value
Neutral Bus	COBie Guide	n/a	insert value

Attribute	Source	Unit	Value
Equip Ground Bus	COBie Guide	n/a	insert value
Isolated Ground Bus	COBie Guide	n/a	insert value
Mounting	COBie Guide	n/a	insert value
AIC Rating	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	power-distribution panelboards and lighting and appliance branch-circuit panelboards
Components	UFGS 2.3/2.3/2.4	n/a	panelboards – filtered panelboards – circuit breakers

UFGS Section and Date	UFGS MAY 2012	26 24 19.00 40	MOTOR CONTROL CENTERS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-35 31 23	Motor Control Centers
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	motor control centers and switchboards
Components	UFGS 2.2/2.3/2.4	n/a	circuit breakers – wiring – terminal blocks – space heaters – motor control centers –

UFGS Section and Date	UFGS MAY 2012	26 27 13.10 30	ELECTRIC METERS 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-35 25 11	Electrical Meters
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	poly-phase electricity meters
Components	UFGS 2.1/2.2	n/a	socket-mount power meters – panel-mounted power meters

UFGS Section and Date	UFGS MAY 2012	26 27 14.00 20	ELECTRICITY METERING 02/11
-----------------------	---------------	----------------	----------------------------

Attribute	Source	Unit	Value
OCCS Table 23 Properties	OCCS MAY 2012	23-35 25 11	Electrical Meters
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.7	n/a	electricity meters
Components	UFGS 2.2/2.2	n/a	electricity meters – transformers - communications interfaces
UFGS Section and Date	UFGS MAY 2012	26 27 29	MARINA ELECTRICAL WORK 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-35 00 00	Electrical and Lighting Specific Products and Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	electrical wiring systems
Components	UFGS 2.2/2.3/2.4	n/a	conduit and fittings – power center – boxes – wire and cables – receptacles – panelboards – transformers - telephone
UFGS Section and Date	UFGS MAY 2012	26 28 00.00 10	MOTOR CONTROL CENTERS, SWITCHBOARDS AND PANELBOARDS 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-35 31 00	Electrical Power Distribution Devices
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value

Attribute	Source	Unit	Value
Frequency	COBie Guide	Hz	insert value
Phase	COBie Guide	n/a	insert value
Number of Wires	COBie Guide	n/a	insert value
Number of Poles	COBie Guide	n/a	insert value
Main Breaker Mounting	COBie Guide	n/a	insert value
Main Bus Current	COBie Guide	Amps	insert value
Neutral Bus	COBie Guide	n/a	insert value
Equip Ground Bus	COBie Guide	n/a	insert value
Isolated Ground Bus	COBie Guide	n/a	insert value
Mounting	COBie Guide	n/a	insert value
AIC Rating	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	motor control centers, switchboards and panelboards
Components	UFGS 2.2/2.3/2.4	n/a	motor control centers – dead-front switchboards - panelboards

UFGS Section and Date	UFGS MAY 2012	26 28 01.00 10	COORDINATED POWER SYSTEM PROTECTION 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-35 25 17	Electrical Power Protection Modules
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	coordinated protection of power systems
Components	UFGS 2.4/2.5/2.6	n/a	motor control and motor control centers – fuses – circuit breakers – relays - transformers

UFGS Section and Date	UFGS MAY 2012	26 28 21.00 40	AUTOMATIC TRANSFER SWITCHES 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-35 37 11	Automatic Transfer Switches
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value

Attribute	Source	Unit	Value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	automatic transfer switches for use with engine-generator sets for standby power
Components	UFGS 2.3	n/a	contacts – indicating lights – terminal boards
UFGS Section and Date	UFGS MAY 2012	26 29 01.00 10	ELECTRIC MOTORS, 3-PHASE VERTICAL INDUCTION TYPE 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 15 00	Electric Motors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Power	COBie Guide	kW	insert value
Phase	COBie Guide	n/a	insert value
Efficiency	COBie Guide	n/a	insert value
Drive	COBie Guide	n/a	insert value
Drive Control Type	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	three-phase vertical induction motors for storm-water pumps in pumping stations
Components	UFGS 2.2/2.3/2.4	n/a	motors – surge protection – motor terminals and boxes
UFGS Section and Date	UFGS MAY 2012	26 29 02.00 10	ELECTRIC MOTORS, 3-PHASE VERTICAL SYNCHRONOUS TYPE 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 15 00	Electric Motors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Power	COBie Guide	kW	insert value
Phase	COBie Guide	n/a	insert value
Efficiency	COBie Guide	n/a	insert value
Drive	COBie Guide	n/a	insert value

Attribute	Source	Unit	Value
Drive Control Type	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	three-phase vertical synchronous motors for storm-water pumps in pumping stations
Components	UFGS 2.3/2.4/2.5	n/a	motors – instruments and gauges – piping – space heaters – current transformers

UFGS Section and Date	UFGS MAY 2012	26 29 23	VARIABLE FREQUENCY DRIVE SYSTEMS UNDER 600 VOLTS 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-35 17 00	Variable Speed Drives
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	variable frequency drives
Components	UFGS 2.1/2.2	n/a	variable frequency drives - enclosures

UFGS Section and Date	UFGS MAY 2012	26 32 13.00 20	SINGLE OPERATION GENERATOR SETS 04/07
OCCS Table 23 Properties	OCCS MAY 2012	23-35 11 00	Electrical Generators
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Operating Weight	COBie Guide	Kg	insert value
Type of Support	COBie Guide	n/a	insert value
Maximum Power Output	COBie Guide	kW	insert value
Fuel Type	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	diesel engine-generator sets
Components	UFGS 2.1/2.2	n/a	diesel engine-generator system – engine-generator auxiliary systems and equipment

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	26 32 14.00 10	DIESEL-GENERATOR SET, STATIONARY 15-300 KW, STANDBY APPLICATIONS 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-35 11.00	Electrical Generators
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Operating Weight	COBie Guide	Kg	insert value
Type of Support	COBie Guide	n/a	insert value
Maximum Power Output	COBie Guide	kW	insert value
Fuel Type	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	stationary diesel driven generator sets
Components	UFGS 2.4/2.5/2.6	n/a	engine – fuel system – cooling system – air intake equipment – exhaust system – starting system – generator - controls
UFGS Section and Date	UFGS MAY 2012	26 32 15.00 10	DIESEL-GENERATOR SET STATIONARY 100-2500 KW, WITH AUXILIARIES 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-35 11.00	Electrical Generators
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Operating Weight	COBie Guide	Kg	insert value
Type of Support	COBie Guide	n/a	insert value
Maximum Power Output	COBie Guide	kW	insert value
Fuel Type	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	stationary diesel-driven generator sets
Components	UFGS 2.4/2.5/2.6	n/a	engine – fuel system – cooling system – air intake equipment – exhaust system – starting system – generator - controls

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	26 32 26	MOTOR-GENERATOR SETS, 400 HERTZ (HZ) 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-35 11 13	Motor Generator Sets
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Operating Weight	COBie Guide	Kg	insert value
Type of Support	COBie Guide	n/a	insert value
Maximum Power Output	COBie Guide	kW	insert value
Fuel Type	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	motor generator sets
Components	UFGS 2.2	n/a	motor-generator set - control devices
UFGS Section and Date	UFGS MAY 2012	26 32 33.00 10	UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEM ABOVE 15 KVA CAPACITY 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-35 23 21	Uninterrupted Power Supply (UPS) Units
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	static uninterruptible power supply
Components	UFGS 2.5/2.6/2.7	n/a	UPS module - static bypass transfer circuit - maintenance bypass switch - control panel - battery system
System Capacity	UFGS 2.2.1	kVA (kW)	10 kVa - 20 kVa - 40 kVa - 80 kVa - 150 kVa - 250 kVa - 500 kVa - 750 kVa
Battery Capacity	UFGS 2.2.2	min	5 - 10 - 12 - 15 - 30
UFGS Section and Date	UFGS MAY 2012	26 33 53.00 20	UNINTERRUPTIBLE POWER SUPPLY (UPS) 04/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 23 21	Uninterrupted Power Supply (UPS) Units
Name	COBie Guide	n/a	Type XX Space#-01

Attribute	Source	Unit	Value
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	static uninterruptible power supply
Components	UFGS 2.1/2.2/2.3	n/a	UPS module - static bypass transfer circuit - maintenance bypass switch - control panel - battery system
Module Capacity	UFGS 2.4.2	kVA (kW)	10 kVa - 20 kVa - 40 kVa - 80 kVa - 150 kVa - 250 kVa - 500 kVa - 750 kVa
Battery Capacity	UFGS 2.4.3	min	5 - 10 - 12 - 15 - 30

UFGS Section and Date	UFGS MAY 2012	26 35 33.00 40	POWER FACTOR CORRECTION EQUIPMENT 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-35 23 19	Powerfactor Correction Devices
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	metal-enclosed shunt capacitor equipment
Components	UFGS 2.1/2.2/2.3	n/a	shunt capacitor equipment - pole line capacitors - low-voltage capacitors

UFGS Section and Date	UFGS MAY 2012	26 35 43	400-HERTZ (HZ) SOLID STATE FREQUENCY CONVERTER 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-35 23 00	Power Conditioning Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value

Attribute	Source	Unit	Value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	solid state frequency converters
Components	UFGS 2.1/2.2/2.3	n/a	frequency converter – aircraft power cable assembly – control panel

UFGS Section and Date	UFGS MAY 2012	26 35 46.00 20	RADIO FREQUENCY INTERFERENCE POWER LINE FILTERS 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-35 23 00	Power Conditioning Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	radio frequency filters
Components	UFGS 2.3/2.4/2.5	n/a	filter units – filter connections

UFGS Section and Date	UFGS MAY 2012	26 36 00.00 10	AUTOMATIC TRANSFER SWITCH AND BY-PASS/ISOLATION SWITCH 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-35 37 11	Automatic Transfer Switches
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	low-voltage applications of automatic transfer switches and switches with by-pass/isolation switches
Components	UFGS 2.3/2.4/2.5	n/a	automatic transfer switches – by-pass/isolation switches

UFGS Section and Date	UFGS MAY 2012	26 36 23.00 20	AUTOMATIC TRANSFER SWITCHES 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-35 37 11	Automatic Transfer Switches

Attribute	Source	Unit	Value
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	automatic transfer switches for use in emergency electrical power systems
Components	UFGS 2.1	n/a	automatic transfer switches - by-pass/isolation switches - switch controls

UFGS Section and Date	UFGS MAY 2012	26 41 00.00 20	LIGHTNING PROTECTION SYSTEM 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-35 39 15	Lightning Protection
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	lightning protection systems for non-ordinance naval facilities
System Components	UFGS 2.2	n/a	air terminals - ground rods - grounding plates

UFGS Section and Date	UFGS MAY 2012	26 41 00.00 40	LIGHTNING PROTECTION SYSTEM 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 39 15	Lightning Protection
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value

Attribute	Source	Unit	Value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	lightning protection systems for non-ordinance naval facilities
System Components	UFGS 2.2	n/a	air terminals – ground rods – grounding plates
UFGS Section and Date	UFGS MAY 2012	26 41 01.00 10	LIGHTNING PROTECTION SYSTEM 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 39 15	Lightning Protection
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	lightning protection for buildings and other structures
System Components	UFGS 2.2	n/a	air terminals – ground rods – grounding plates
UFGS Section and Date	UFGS MAY 2012	26 42 13.00 20	CATHODIC PROTECTION BY GALVANIC ANODES 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-35 39 00	Electric Power Protection Devices
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	cathodic protection systems utilizing galvanic anodes for underground piping and buried or submerged structures
Anodes	UFGS 2.1	n/a	magnesium – cast zinc – wrought zinc – aluminum
Reference Electrodes	UFGS 2.3	n/a	copper copper-sulfate – silver silver-chloride - zinc
UFGS Section and Date	UFGS MAY 2012	26 42 14.00 10	CATHODIC PROTECTION SYSTEM (SACRIFICIAL ANODE) 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-35 39 00	Electric Power Protection Devices
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name

Attribute	Source	Unit	Value
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	cathodic protection system utilizing continuous flow direct current from sacrificial anodes
Anodes	UFGS 2.1	n/a	high-potential magnesium - zinc
UFGS Section and Date	UFGS MAY 2012	26 42 15.00 10	CATHODIC PROTECTION SYSTEM (STEEL WATER TANKS) 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 39 00	Electric Power Protection Devices
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	cathodic protection system using impressed current anodes
System Type	UFGS 1.2	n/a	automatic - manual
Anodes	UFGS 2.1	n/a	high silicon cast iron - mixed metal oxide - precious metal
UFGS Section and Date	UFGS MAY 2012	26 42 17.00 10	CATHODIC PROTECTION SYSTEM (IMPOSED CURRENT) 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 39 00	Electric Power Protection Devices
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance

Attribute	Source	Unit	Value
System Description	UFGS 1.2	n/a	cathodic protection system using impressed current anodes
Anodes	UFGS 2.1	n/a	high silicon cast-iron – bare graphite – canister contained coke breeze - mixed metal oxide
UFGS Section and Date	UFGS MAY 2012	26 42 19.00 20	CATHODIC PROTECTION BY IMPRESSED CURRENT 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-35 39 00	Electric Power Protection Devices
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	cathodic protection systems using impressed current systems for underground piping and buried or submerged structure
Anodes	UFGS 2.1	n/a	high-silicon chromium bearing cast iron – graphite – mixed metal oxide
UFGS Section and Date	UFGS MAY 2012	26 42 19.10	CATHODIC PROTECTION SYSTEMS (IMPRESSED CURRENT) FOR LOCK MITER GATES 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 39 00	Electric Power Protection Devices
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	cathodic protection systems for lock miter gates
Anodes	UFGS 2.5	n/a	hi-silicon cast-iron – ceramic coated titanium – hi-silicon cast-iron
UFGS Section and Date	UFGS MAY 2012	26 42 22.00 20	CATHODIC PROTECTION SYSTEM FOR STEEL WATER TANKS 01/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 39 00	Electric Power Protection Devices
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX

Attribute	Source	Unit	Value
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	cathodic protection systems using impressed current systems and galvanic anodes for steel water tanks
Anodes	UFGS 2.1	n/a	high-silicon chromium bearing cast iron – aluminum – precious metal - magnesium

UFGS Section and Date	UFGS MAY 2012	26 51 00.00 40	INTERIOR LIGHTING 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-35 47 11	Lighting Fixtures
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Lens Type	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Mounting	COBie Guide/UFGS 2.5/2.6	n/a	recess - flush -suspended
Lamp Type	COBie Guide	n/a	insert value
Lamp Count	COBie Guide	Each	insert value
Lamp Power	COBie Guide	W	insert value
Function	COBie Guide	n/a	insert value
Light Path	COBie Guide	n/a	insert value
Sustainability	COBie Guide/UFGS 1.8	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	interior lighting
Lamp Type	UFGS 2.2/2.3/2.4	n/a	fluorescent - high-intensity-discharge - incandescent
Ballasts	UFGS 2.2/2.3	n/a	T-8 - F17T8 - T-5 - F96T8 - T-8 dimming - electromagnetic - high-pressure sodium - low-pressure sodium - metal-halide

UFGS Section and Date	UFGS MAY 2012	26 51 00	INTERIOR LIGHTING 07/07
OCCS Table 23 Properties	OCCS MAY 2012	23-35 47 11	Lighting Fixtures
Name	COBie Guide	n/a	Type XX Space#-01

Attribute	Source	Unit	Value
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Lens Type	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Mounting	COBie Guide/UFGS 2.4/2.5	n/a	recess - flush -suspended
Lamp Type	COBie Guide	n/a	insert value
Lamp Count	COBie Guide	Each	insert value
Lamp Power	COBie Guide	W	insert value
Function	COBie Guide	n/a	insert value
Light Path	COBie Guide	n/a	insert value
Mounting	COBie Guide	n/a	insert value
Sustainability	COBie Guide/UFGS 1.9	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.4	n/a	interior lighting
Lighting Control	UFGS 1.4	n/a	control modules - power packs - dimming ballasts - occupancy sensors - light level sensors
Lamp Type	UFGS 2.1/2.2/2.3	n/a	fluorescent - high-intensity-discharge - incandescent
Ballasts	UFGS 2.1/2.2	n/a	T-8 - F17T8 - T-5 - F96T8 - T-8 dimming - electromagnetic - high-pressure sodium - low-pressure sodium - metal-halide

UFGS Section and Date	UFGS MAY 2012	26 52 00.00 40	EMERGENCY LIGHTING 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-35 47 13	Emergency Lighting
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Lens Type	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Mounting	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Lamp Count	COBie Guide	Each	insert value

Attribute	Source	Unit	Value
Lamp Power	COBie Guide	W	insert value
Function	COBie Guide	n/a	insert value
Light Path	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	battery-operated incandescent and emergency lighting units and lamps
Fixture Type	UFGS 2.2	n/a	emergency lighting egress units – emergency fluorescent – central emergency

UFGS Section and Date	UFGS MAY 2012	26 53 00.00 40	EXIT SIGNS 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 47 15	Exit Illuminated Signs
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Lens Type	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Mounting	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Lamp Count	COBie Guide	Each	insert value
Lamp Power	COBie Guide	W	insert value
Function	COBie Guide	n/a	insert value
Light Path	COBie Guide	n/a	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	exist lighting fixtures and lamps
Fixture Type	UFGS 2.2/2.3/2.4/2.5	n/a	contemporary – emergency power loss – light emitting diodes – self-luminous
UFGS Section and Date	UFGS MAY 2012	26 54 21.00 10	HELIPAD LIGHTING AND VISUAL NAVIGATION AIDS 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-35 47 11 21	Specialized Lighting Fixtures
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value

Attribute	Source	Unit	Value
Frequency	COBie Guide	Hz	insert value
Lens Type	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Mounting	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Lamp Count	COBie Guide	Each	insert value
Lamp Power	COBie Guide	W	insert value
Function	COBie Guide	n/a	insert value
Light Path	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	lighting and visual navigation aids for helipads
Lighting and Navigation Aids	UFGS 2.3/2.4/2.5/2.6	n/a	lighting - markings - beacons - wind direction indicator - obstruction lights - glide slope indicator - hoverlane

UFGS Section and Date	UFGS MAY 2012	26 55 53.00 10	EXTERIOR LIGHTING INCLUDING SECURITY AND CCTV APPLICATIONS 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-35 47 11	Lighting Fixtures
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Lens Type	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Mounting	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Lamp Count	COBie Guide	Each	insert value
Lamp Power	COBie Guide	W	insert value
Function	COBie Guide	n/a	insert value
Light Path	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	lighting for roads, walks, security and closed circuit television assessment
Poles	UFGS 2.12	n/a	aluminum - steel - concrete - wood - fiberglass
Lamp Type	UFGS 2.17/2.18/2.19	n/a	high-pressure sodium - mercury vapor - metal-halide - incandescent - fluorescent

UFGS Section and Date	UFGS MAY 2012	26 55 53.00 40	SECURITY LIGHTING 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-35 47 11 20	Security Lighting Fixtures
Name	COBie Guide	n/a	Type XX Space#-01

Attribute	Source	Unit	Value
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Lens Type	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Mounting	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Lamp Count	COBie Guide	Each	insert value
Lamp Power	COBie Guide	W	insert value
Function	COBie Guide	n/a	insert value
Light Path	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	lighting for security and closed circuit television area illumination
Lamp Type	UFGS 2.10/2.11/2.12	n/a	high-pressure sodium – mercury vapor – metal-halide – incandescent - fluorescent

UFGS Section and Date	UFGS MAY 2012	26 55 80.00 20	SURGICAL LIGHTING FIXTURES 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-25 59 13 17	Surgical Lighting Fixtures
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Lens Type	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Mounting	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Lamp Count	COBie Guide	Each	insert value
Lamp Power	COBie Guide	W	insert value
Function	COBie Guide	n/a	insert value
Light Path	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance

Attribute	Source	Unit	Value
System Description	UFGS 2.1	n/a	surgical lighting fixtures
Fixture Type	UFGS 2.1	n/a	one lighthead – two lighthead – track-mounted
Lamp Type	UFGS 2.1.6	n/a	quartz halogen
UFGS Section and Date	UFGS MAY 2012	26 56 00.00 20	EXTERIOR LIGHTING 08/12
OCCS Table 23 Properties	OCCS MAY 2012	23-35 47 11	Lighting Fixtures
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Lens Type	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Mounting	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Lamp Count	COBie Guide	Each	insert value
Lamp Power	COBie Guide	W	insert value
Function	COBie Guide	n/a	insert value
Light Path	COBie Guide	n/a	insert value
Mounting	COBie Guide	n/a	insert notes
Sustainability	COBie Guide/UFGS 1.7	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	exterior lighting systems
Luminaires	UFGS 2.2	n/a	HID – LPS – fluorescent – induction – LED
Luminaire Light Source	UFGS 2.2.2	n/a	high pressure sodium – metal halide – low pressure sodium – fluorescent – induction - LED
Luminaire Controls	UFGS 2.4	n/a	photocell – time switch – lighting contactor – motion sensor – bi-level HID controller
Poles	UFGS 2.5	n/a	concrete – aluminum – steel – wood - fiberglass
UFGS Section and Date	UFGS MAY 2012	26 56 00	EXTERIOR LIGHTING 07/06
OCCS Table 23 Properties	OCCS MAY 2012	23-35 47 11	Lighting Fixtures
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value

Attribute	Source	Unit	Value
Lens Type	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Mounting	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Lamp Count	COBie Guide	Each	insert value
Lamp Power	COBie Guide	W	insert value
Function	COBie Guide	n/a	insert value
Light Path	COBie Guide	n/a	insert value
Sustainability	COBie Guide/UFGS 1.6	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	exterior lighting systems
Lamps	UFGS 2.2	n/a	high-pressure sodium – standby high-pressure sodium – low-pressure sodium – metal-halide
Poles	UFGS 2.6	n/a	concrete – aluminum – steel – wood - fiberglass

UFGS Section and Date	UFGS MAY 2012	26 56 13.00 40	LIGHTING POLES AND STANDARDS	11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 47 11 21 13	Lighting Poles	
Name	COBie Guide	n/a	Type XX Space#-01	
Type	COBie Guide	n/a	Type XX	
Location	COBie Guide	n/a	space name	
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof	
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary	
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number	
Basis-of-Design Notes	COBie Guide	n/a	insert notes	
Current	COBie Guide	Amps	insert value	
Voltage	COBie Guide	Volts	insert value	
Frequency	COBie Guide	Hz	insert value	
Sustainability	COBie Guide/UFGS 1.6	n/a	energy saving - regional sourcing - local supply - scheduled maintenance	
System Description	UFGS 2.1	n/a	lighting poles and standards for exterior lighting	
Poles	UFGS 2.3	n/a	concrete – aluminum – steel – wood – fiberglass	
Pole Windload Design	UFGS 2.3	km/hr (mph)	160 km/hr (100 mph)	

UFGS Section and Date	UFGS MAY 2012	26 56 19.00 40	ROADWAY LIGHTING	11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 47 11 21	Specialized Lighting Fixtures	
Name	COBie Guide	n/a	Type XX Space#-01	
Type	COBie Guide	n/a	Type XX	
Location	COBie Guide	n/a	space name	
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof	
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary	
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number	
Basis-of-Design Notes	COBie Guide	n/a	insert notes	
Current	COBie Guide	Amps	insert value	
Voltage	COBie Guide	Volts	insert value	
Frequency	COBie Guide	Hz	insert value	

Attribute	Source	Unit	Value
Lens Type	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Mounting	COBie Guide/UFGS 2.2	n/a	end-mounted – side-mounted
Lamp Type	COBie Guide	n/a	insert value
Lamp Count	COBie Guide	Each	insert value
Lamp Power	COBie Guide	W	insert value
Function	COBie Guide	n/a	insert value
Light Path	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	highway and roadway lighting luminaires
Lamps	UFGS 2.2.5	n/a	high pressure sodium - low pressure sodium - incandescent

UFGS Section and Date	UFGS MAY 2012	26 56 20.00 10	AIRFIELD AND HELIPORT LIGHTING AND VISUAL NAVIGATION AIDS 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-35 47 11 21	Specialized Lighting Fixtures
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Lens Type	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Mounting	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Lamp Count	COBie Guide	Each	insert value
Lamp Power	COBie Guide	W	insert value
Function	COBie Guide	n/a	insert value
Light Path	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	lighting and visual navigation aids for airfields and heliports
Lighting and Navigation Aids	UFGS 2.4/2.5/2.6	n/a	lighting - markings – beacons – wind direction indicator – obstruction lights – glide slope indicator – hoverlane

UFGS Section and Date	UFGS MAY 2012	26 56 23.00 40	AREA LIGHTING 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 47 11 21	Specialized Lighting Fixtures
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name

Attribute	Source	Unit	Value
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Lens Type	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Mounting	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Lamp Count	COBie Guide	Each	insert value
Lamp Power	COBie Guide	W	insert value
Function	COBie Guide	n/a	insert value
Light Path	COBie Guide	n/a	insert value
Sustainability	COBie Guide/UFGS 1.6	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	area lighting for exterior installations and recreational areas
Lamps	UFGS 2.2	n/a	high-pressure sodium - standby high-pressure sodium - lower-pressure sodium - metal-halide

UFGS Section and Date	UFGS MAY 2012	26 56 36.00 40	FLOOD LIGHTING 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-35 47 11 21	Specialized Lighting Fixtures
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Lens Type	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Mounting	COBie Guide	n/a	insert value
Lamp Type	COBie Guide	n/a	insert value
Lamp Count	COBie Guide	Each	insert value
Lamp Power	COBie Guide	W	insert value
Function	COBie Guide	n/a	insert value
Light Path	COBie Guide	n/a	insert value
Sustainability	COBie Guide/UFGS 1.6	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	floodlighting fixtures and energy efficient lamps
Luminaires	UFGS 2.4/2.5/2.6	n/a	fluorescent - high-intensity discharge - quartz-iodine

Attribute	Source	Unit	Value
Lamps	UFGS 2.10	n/a	low-pressure sodium – high-pressure sodium – metal halide - incandescent
UFGS Section and Date	UFGS MAY 2012	26 60 13.00 40	LOW-VOLTAGE MOTORS 11/11
OCCS Table 23 Properties	OCCS MAY 2012	23-35 15 00	Electric Motors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Power	COBie Guide	kW	insert value
Phase	COBie Guide	n/a	insert value
Efficiency	COBie Guide	n/a	insert value
Drive	COBie Guide	n/a	insert value
Drive Control Type	COBie Guide	n/a	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	alternating-current motors
Motor Types	UFGS 2.1.1	n/a	250 watt rating 1/3 HP and smaller single phase –375 watt 1/2 HP and larger three-phase
UFGS Section and Date	UFGS MAY 2012	27 05 13.00 10	TWO-WAY RADIO DATA ETHERNET TRANSMISSION SYSTEM 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-37 23 19	Radio Broadcast Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	two-way radio system for wireless data transmission building-to-building for utility monitor and control system
Communication Equipment	UFGS 2.2.1/2.2.2	n/a	government furnished - contractor furnished
UFGS Section and Date	UFGS MAY 2012	27 05 14.00 10	CABLE TELEVISION PREMISES DISTRIBUTION SYSTEM 04/06

Attribute	Source	Unit	Value
OCCS Table 23 Properties	OCCS MAY 2012	23-37 11 17	Communication Wireways
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	coaxial cable TV premises distribution system
Cable	UFGS 2.1.1	n/a	coaxial cable rated CMP - coaxial cable rated CMR - coaxial cable rated CMG

UFGS Section and Date	UFGS MAY 2012	27 05 28.36 40	CABLE TRAYS FOR COMMUNICATIONS SYSTEMS 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-37 11 13	Communication Cable Trays
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	ladder cable trays - trough cable trays - channel cable trays - solid bottom cable trays
Cable Tray Materials	UFGS 2.2	n/a	aluminum - zinc-coated steel - hot-dip galvanized steel - stainless steel

UFGS Section and Date	UFGS MAY 2012	27 05 29.00 10	PROTECTIVE DISTRIBUTION SYSTEM (PDS) FOR SIPRNET COMMUNICATION SYSTEMS 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-37 11 17	Communication Wireways
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value

Attribute	Source	Unit	Value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	protective distribution system for SIPRNET communication systems
Carrier Configuration	UFGS 2.1.1/2.1.2	n/a	secure raceway carrier – conduit carrier

UFGS Section and Date	UFGS MAY 2012	27 10 00	BUILDING TELECOMMUNICATIONS CABLING SYSTEM 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-37 11 17	Communication Wireways
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.4	n/a	permanently installed building telecommunications cabling and pathway systems
Backbone Cabling	UFGS 2.3.1	n/a	copper – optical fiber

UFGS Section and Date	UFGS MAY 2012	27 13 23.00 40	COMMUNICATIONS OPTICAL BACKBONE CABLING 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-37 11 17	Communication Wireways
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	fiber optic backbone cabling
Fiber Optic Cabling	UFGS 2.1.1	n/a	multi mode fiber media – single mode fiber media

UFGS Section and Date	UFGS MAY 2012	27 15 19.00 10	WIRE LINE DATA TRANSMISSION SYSTEM 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-37 11 17	Communication Wireways
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX

Attribute	Source	Unit	Value
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	half or full duplex wire line data transmission system for communication between local devices and central processor
Wire Line Cabling	UFGS 2.2	n/a	underground – aerial – direct burial – interior

UFGS Section and Date	UFGS MAY 2012	27 21 00.00 20	INTERCOMMUNICATION SYSTEM 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-37 23 17	Intercom Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	intercommunication system for speech
System Type	UFGS 2.1	n/a	direct connected –single conversation path central control – multiple conversation path central control – paging – public address

UFGS Section and Date	UFGS MAY 2012	27 21 00.00 40	INTERCOMMUNICATION SYSTEM 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-37 23 17	Intercom Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance

Attribute	Source	Unit	Value
System Description	UFGS 1.3	n/a	intercommunication system for speech
System Type	UFGS 2.1	n/a	direct connected –single conversation path central control – multiple conversation path central control – paging – public address

UFGS Section and Date	UFGS MAY 2012	27 21 10.00 10	FIBER OPTIC DATA TRANSMISSION SYSTEM 07/06
OCCS Table 23 Properties	OCCS MAY 2012	23-37 11 15 15	Fiber Optic Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	fiber optic data transmission system
Modules	UFGS 2.1	n/a	analog – digital – fiber optic

UFGS Section and Date	UFGS MAY 2012	27 21 10.00 40	FIBER OPTIC DATA TRANSMISSION SYSTEM 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-37 11 15 15	Fiber Optic Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	fiber optic data transmission system
Modules	UFGS 2.1	n/a	analog – digital – fiber optic

UFGS Section and Date	UFGS MAY 2012	27 33 30.00 10	STAND-ALONE ONE-WAY RADIO CONTROL SYSTEM 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-37 23 21	Radio Communication Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary

Attribute	Source	Unit	Value
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	one-way FM radio control system for equipment
Communication Equipment	UFGS 2.2.1/2.2.2	n/a	government furnished - contractor furnished

UFGS Section and Date	UFGS MAY 2012	27 33 31.00 10	ONE-WAY FM RADIO DATA CONTROL SYSTEM 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-37 23 21	Radio Communication Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	one-way FM radio control system for equipment with energy management software
Communication Equipment	UFGS 2.2.1/2.2.2	n/a	government furnished - contractor furnished

UFGS Section and Date	UFGS MAY 2012	27 41 00.00 10	NURSE CALL AUDIO-VISUAL (NCAV) SYSTEM 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-37 27 17 13	Nurse Call Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	nurse call audio-visual system
Subsystems	UFGS 2.2	n/a	patient stations - staff stations - emergency stations - infant stations - code blue stations - outlet stations
Servers	UFGS 2.7	n/a	call logging - information system - radio page - wireless telephone

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	27 41 16.00 10	TELEVISION SIGNAL RECEPTION SYSTEM 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-37 25 23 11	Television Broadcasting Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	television reception system for radio frequency signals for transmission by coaxial cable distribution system
Antennas	UFGS 2.2	n/a	off-air television antenna - off-air FM antenna - support tower - transmission lines
UFGS Section and Date	UFGS MAY 2012	27 51 13.00 10	RADIO PAGING SYSTEM 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-37 17 15	Public Address Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	radio paging system for signaling and message communications
Reception Equipment	UFGS 2.5	n/a	paging terminals - encoder/CPU - couplers - transmitters - receivers
UFGS Section and Date	UFGS MAY 2012	27 51 16	RADIO AND PUBLIC ADDRESS SYSTEMS 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-37 17 15	Public Address Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number

Attribute	Source	Unit	Value
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	audio distribution network for radio and public address system
System Type	UFGS 1.2	n/a	multi-channel system with paging – single-channel system
System Equipment	UFGS 2.2	n/a	amplifiers – microphones – loudspeakers – players
UFGS Section and Date	UFGS MAY 2012	27 51 23.10	INTERCOMMUNICATION SYSTEM 05/11
OCCS Table 23 Properties	OCCS MAY 2012	23-37 27 15	Intercoms
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	modular wired and wireless intercommunication system
System Type	UFGS 2.1	n/a	direct connected –single conversation path central control – multiple conversation path central control
System Equipment	UFGS 2.1	n/a	amplifiers – loudspeakers - stations
UFGS Section and Date	UFGS MAY 2012	27 52 23.00 20	NURSE CALL SYSTEM 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-37 27 17 13	Nurse Call Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	nurse call system for patients and staff
Subsystems	UFGS 1.3.1	n/a	visual nurse call – audiovisual nurse call – centralized nurse call – centralized processor controlled

Attribute	Source	Unit	Value
System Equipment	UFGS 2.1	n/a	nurse assist stations – toilet emergency stations – patient stations
UFGS Section and Date	UFGS MAY 2012	27 52 32.00 10	NURSE CALL TONE-VISUAL (NCTV) SYSTEM 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-37 27 17 13	Nurse Call Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	nurse call system
Subsystems	UFGS 2.2	n/a	emergency systems – code blue stations – annulciator stations
UFGS Section and Date	UFGS MAY 2012	27 54 00.00 20	COMMUNITY ANTENNA TELEVISION (CATV) SYSTEMS 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-37 25 23 11	Television Broadcasting Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.4	n/a	cable television system
System Equipment	UFGS 2.2	n/a	headend amplifiers – distribution amplifiers
UFGS Section and Date	UFGS MAY 2012	28 05 26.00 40	GROUNDRING AND BONDING FOR ELECTRONIC SAFETY AND SECURITY 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-35 39 00	Electric Power Protection Devices
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number

Attribute	Source	Unit	Value
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	electrical system and equipment grounding
Grounding Components	UFGS 2.1	n/a	ground rods – ground wires – fasteners and connectors

UFGS Section and Date	UFGS MAY 2012	28 16 00.00 20	BASIC INTRUSION DETECTION SYSTEMS (IDS) 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-29 11.23	Intrusion Detection Devices
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.4	n/a	intrusion detection system and equipment
Intrusion Detection System Subsystems	UFGS 2.1	n/a	detection – arm/disarm multiple function keypad – communications – assessment – alarm reporting – power
Detection Coverage	UFGS 2.3.1	n/a	facility perimeter – critical spaces within the facility
Detection Alarms	UFGS 2.3.4	n/a	intrusion detection – tamper – fail-safe – line fault – power loss – low battery in control communicator

UFGS Section and Date	UFGS MAY 2012	28 16 01.00 10	SMALL INTRUSION DETECTION SYSTEM 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-29 11.23	Intrusion Detection Devices
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Mounting	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	intrusion detection system and equipment

Attribute	Source	Unit	Value
Interior Sensors	UFGS 2.2	n/a	balanced switch - glass break - duress alarm - security screen - vibration - motion - passive infrared - photo-electric
UFGS Section and Date	UFGS MAY 2012	28 20 00.00 20	ELECTRONIC SECURITY SYSTEMS (ESS), COMMERCIAL 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-29 11 00	Security Detection and Monitoring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.4	n/a	electronic security system
Intrusion Detection System Subsystems	UFGS 2.1	n/a	intrusion detection - access control - communications - closed -circuit television - alarm reporting - power
Detection Alarms	UFGS 2.3.5	n/a	intrusion detection - tamper - fail-safe - line fault - power loss
UFGS Section and Date	UFGS MAY 2012	28 20 01.00 10	ELECTRONIC SECURITY SYSTEM 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-29 11 00	Security Detection and Monitoring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	electronic security system
Control Devices	UFGS 2.6	n/a	balanced switch - glass break - duress - vibration - passive infrared - photo-electric - seismic - motion
UFGS Section and Date	UFGS MAY 2012	28 20 02	CENTRAL MONITORING SERVICES FOR ELECTRONIC SECURITY SYSTEMS 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-29 11 00	Security Detection and Monitoring
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name

Attribute	Source	Unit	Value
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	central monitoring services
Alarm Verification	UFGS 3.2/3.3	n/a	audio - video

UFGS Section and Date	UFGS MAY 2012	28 23 23.00 10	CLOSED CIRCUIT TELEVISION SYSTEMS 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-29 11 11	Closed Circuit Television Equipment
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	closed circuit television systems
Enclosures	UFGS 2.2	n/a	interior - exposed-to-weather - corrosion-resistant - hazardous environment
Cameras	UFGS 2.6	n/a	high resolution monochrome - low-light monochrome - high-resolution color - dome

UFGS Section and Date	UFGS MAY 2012	28 26 23	DURESS SIGNAL SYSTEM [FOR BRIG FACILITIES] 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-37 27 11	Duress Notification Devices
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance

Attribute	Source	Unit	Value
System Description	UFGS 2.1	n/a	duress signal systems for brigs and detention facilities
Signal Stations	UFGS 2.1	n/a	wall mounted – floor mounted
UFGS Section and Date	UFGS MAY 2012	28 31 00.00 10	FIRE DETECTION AND ALARM SYSTEM, DIRECT CURRENT LOOP 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-29 31 00	Fire Notification Appliances
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	fire detection and alarm systems and central reporting system, direct current loop
Alarms and Devices	UFGS 2.6	n/a	manual alarm stations – fire detecting devices
Fire Detecting Devices	UFGS 2.7	n/a	heat – smoke – combination smoke and heat – flame
Notification Devices	UFGS 2.8	n/a	alarm bells – alarm horns – chimes – visual notification
Transmitters	UFGS 2.11	n/a	radio alarm – master fire alarm boxes – telephonic reporting system
UFGS Section and Date	UFGS MAY 2012	28 31 02.00 20	FIRE ALARM REPORTING SYSTEMS - DIGITAL COMMUNICATORS 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-29 31 00	Fire Notification Appliances
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.4	n/a	facility-wide public fire reporting system
Communicators	UFGS 2.1	n/a	transmitters - receivers
UFGS Section and Date	UFGS MAY 2012	28 31 13.00 40	FIRE DETECTION AND ALARM CONTROL, GUI, AND LOGIC SYSTEMS 08/10
OCCS Table 23 Properties	OCCS MAY 2012	23-29 31 00	Fire Notification Appliances

Attribute	Source	Unit	Value
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.4	n/a	supervised noncoded analog/addressable fire alarm system
Notification Appliances	UFGS 2.2.19	n/a	fire – visual – horns – bells – chimes – combination audible-visual – voice evacuation
Fire Detecting Devices	UFGS 2.8	n/a	heat – combination smoke and heat - flame

UFGS Section and Date	UFGS MAY 2012	28 31 33.00 10	FIRE ALARM REPORTING SYSTEM, RADIO TYPE 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-29 31 00	Fire Notification Appliances
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	central reporting radio-type fire alarm system
Radio Devices	UFGS 2.3/2.4	n/a	transmitter – interface device - monitoring base station

UFGS Section and Date	UFGS MAY 2012	28 31 33.13 20	EXTERIOR FIRE REPORTING SYSTEM, RADIO TYPE 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-29 31 00	Fire Notification Appliances
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value

Attribute	Source	Unit	Value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	facility wide radio fire reporting system connected to protected premises fire alarm system
Radio Devices	UFGS 2.1/2/2	n/a	transmitters – master boxes – street boxes
UFGS Section and Date	UFGS MAY 2012	28 31 49	CARBON MONOXIDE DETECTORS 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-27 11 27 17	Gas Detectors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	carbon monoxide detectors
Detectors	UFGS 2.1	n/a	single station – multiple station
UFGS Section and Date	UFGS MAY 2012	28 31 63.00 20	ANALOG/ADDRESSABLE INTERIOR FIRE ALARM SYSTEM 10/07
OCCS Table 23 Properties	OCCS MAY 2012	23-29 31 00	Fire Notification Appliances
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.3	n/a	supervised non-coded analog/addressable fire alarm system
Fire Detecting Devices	UFGS 2.2.6/2.2.7	n/a	photoelectric – ionization – duct - thermal
UFGS Section and Date	UFGS MAY 2012	28 31 64.00 10	FIRE DETECTION AND ALARM SYSTEM, ADDRESSABLE 08/09
OCCS Table 23 Properties	OCCS MAY 2012	23-29 31 00	Fire Notification Appliances
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name

Attribute	Source	Unit	Value
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	supervised fire alarm system
Fire Detecting Devices	UFGS 2.7	n/a	heat – smoke – combination heat and smoke - flame

UFGS Section and Date	UFGS MAY 2012	28 31 73.00 20	EXTERIOR FIRE ALARM SYSTEM, CLOSED CIRCUIT TELEGRAPHIC TYPE 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-29 31.00	Fire Notification Appliances
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.4	n/a	closed circuit telegraphic type exterior fire alarm reporting and receiving system
System Components	UFGS 2.1	n/a	alarm receiving and decoding console – sounding devices – fire alarm boxes

UFGS Section and Date	UFGS MAY 2012	28 31 74.00 20	INTERIOR FIRE DETECTION AND ALARM SYSTEM 02/10
OCCS Table 23 Properties	OCCS MAY 2012	23-29 31.00	Fire Notification Appliances
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance

Attribute	Source	Unit	Value
System Description	UFGS 1.4	n/a	manual and automatic noncoated interior fire detection and alarm system
System Components	UFGS 2.2	n/a	control panels – pull stations – detectors – notification appliances – surge suppression
UFGS Section and Date	UFGS MAY 2012	28 31 75.00 10	CENTRAL FIRE ALARM SYSTEM, DIGITAL ALARM COMMUNICATOR TYPE 11/08
OCCS Table 23 Properties	OCCS MAY 2012	23-29 31.00	Fire Notification Appliances
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	supervised central fire alarm system
System Components	UFGS 2.3	n/a	monitoring center - transmitters
UFGS Section and Date	UFGS MAY 2012	28 31 76	INTERIOR FIRE ALARM AND MASS NOTIFICATION SYSTEM 08/11
OCCS Table 23 Properties	OCCS MAY 2012	23-29 31.00	Fire Notification Appliances
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Mounting	COBie Guide	n/a	insert notes
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.4	n/a	interior fire alarm and mass notification system
Alarm Initiating Devices	UFGS 2.3.1	n/a	class A – class B – class X
Notification Appliances	UFGS 2.3.1	n/a	class A – class B
Smoke Sensors	UFGS 2.10	n/a	photoelectric – ionization – projected beam – duct – air sampling
Heat Detectors	UFGS 2.11	n/a	fixed temperature – combination temperature and rate-of-rise – rate-compensating

Attribute	Source	Unit	Value
UFGS Section and Date	UFGS MAY 2012	28 33 00.00 40	FUEL-GAS DETECTION AND ALARM 02/11
OCCS Table 23 Properties	OCCS MAY 2012	23-27 11 27 17	Gas Detectors
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 2.1	n/a	instruments for sensing combustible gases or deficiency of oxygen in ambient air
System Components	UFGS 2.3	n/a	control units - detectors
UFGS Section and Date	UFGS MAY 2012	28 40 01	WATCHTOUR SYSTEM [FOR BRIG FACILITIES] 04/06
OCCS Table 23 Properties	OCCS MAY 2012	23-29 31 00	Fire Notification Appliances
Name	COBie Guide	n/a	Type XX Space#-01
Type	COBie Guide	n/a	Type XX
Location	COBie Guide	n/a	space name
Placement	COBie Guide	n/a	space - ceiling - wall - chase - site - roof
Basis-of-Design Manufacturer	COBie Guide	n/a	non-proprietary - proprietary
Basis-of-Design Model	COBie Guide	n/a	manufacturer's model number
Basis-of-Design Notes	COBie Guide	n/a	insert notes
Current	COBie Guide	Amps	insert value
Voltage	COBie Guide	Volts	insert value
Frequency	COBie Guide	Hz	insert value
Sustainability	COBie Guide	n/a	energy saving - regional sourcing - local supply - scheduled maintenance
System Description	UFGS 1.2	n/a	watchtour system for prisoner housing units
System Equipment	UFGS 2.1	n/a	watchtour station – watchtour panels – start station – data log unit

REPORT DOCUMENTATION PAGE				<i>Form Approved OMB No. 0704-0188</i>
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.				
1. REPORT DATE (DD-MM-YYYY) March 2013	2. REPORT TYPE Final		3. DATES COVERED (From - To)	
4. TITLE AND SUBTITLE Specifiers Properties information exchange (SPie): Minimum Building Information Model (BIM) Object Definitions			5a. CONTRACT NUMBER 5b. GRANT NUMBER 5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S) Mark Kalin and Robert Weygant			5d. PROJECT NUMBER <u>CRADA-07-CERL-02</u> 5e. TASK NUMBER 5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Kalin Associates, Inc. 1121 Washington Street Newton, MA 02465			8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) US Army Engineer Research and Development Center Construction Engineering Research Laboratory P.O. Box 9005 Champaign, IL 61826-9005			10. SPONSOR/MONITOR'S ACRONYM(S) ERDC-CERL 11. SPONSOR/MONITOR'S REPORT NUMBER(S) ERDC/CERL CR-13-1	
12. DISTRIBUTION / AVAILABILITY STATEMENT Approved for public release; distribution is unlimited.				
13. SUPPLEMENTARY NOTES				
14. ABSTRACT <p>The use of Building Information Modeling (BIM) technology beyond geometric collision detection requires that owners specify minimum content standards and define the formats in which BIM data are to be delivered. Such standards can be viewed as performance-based specifications for information deliverables that may be objectively tested and enforced. This report documents the specification of minimum BIM object definitions of 498 BIM object classes. These specifications were derived from Unified Facilities Guide Specifications (UFGS) requirements and typical equipment schedules published in “The COBie Guide” (http://buildingsmartalliance.org/index.php/projects/cobieguide/). Each object is classified based on the OmniClass Product Table Schema (http://www.omniclass.org/).</p> <p>The National Building Information Model Standard (NBIMS-US) has begun the process of coordinating the development of information-exchange standards in the United States. This document establishes the proposed minimum BIM object definitions for submittal under the round of NBIMS-US balloting scheduled for 2013.</p>				
15. SUBJECT TERMS information exchange, product data templates, guide specifications, Construction Operations Building information exchange (COBie), Building Information Modeling (BIM)				
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES
a. REPORT Unclassified	b. ABSTRACT Unclassified	c. THIS PAGE Unclassified		19a. NAME OF RESPONSIBLE PERSON 19b. TELEPHONE NUMBER (include area code)